### **PMC-301L**

### **SERVICE MANUAL**

Ver 1.1 2001, 05

AEP Model UK Model



0.0	Model Name Using Similar Mechanism	NEW
CD Section	Loading Mechanism Name	KSL-2103ABM
Section	CD Mechanism Type	KSM-2101ABM
Таре	Model Name Using Similar Mechanism	NEW
Section	Tape Transport Mechanism Type	MF-501-105

### **SPECIFICATIONS**

CD.	plaver	section
-----	--------	---------

System Compact disc digital audio system Laser diode properties

Material: GaAIAs

Wave length: 780 nm

Emission duration: Continuous Laser output: Less than 44.6 µW (This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical

pick-up block.)

Spindle speed 200 r/min (rpm) to 500 r/min (rpm)

(CLV)

Error correction Sony Refined Super Strategy

Cross Interleave Reed Solomon

Code

Number of channels

Frequency response Wow and flutter

20-20,000 Hz +1/-2 dB Below measurable limit

Radio section

Frequency range

•	<b>FM</b>	MW	LW	
	87.6–107 N	/IHz 531-1,602	kHz 153–279 kH	z
IF		FM:	10.7 MHz	_
		MW	/LW: 450 kHz	
Aerials		FM:	75 ohm unbala	nced

MW/LW: External aerial terminals Cassette-corder section

Recording system Fast winding time 4-track 2-channel stereo Approx. 120 s (sec.) with Sony

cassette HF60

Frequency response

50-15,000 Hz TYPE I (normal) TYPE II (CrO:) 50-16,000 Hz TYPE IV (metal) 50-18,000 Hz

General

Outputs

Speaker Fullrange:

10 cm (4 inches) dia., 4 ohms cone type (2) Mixing microphone input jack

Inputs (minijack):

Sensitivity 3.2 mV

For low impedance microphone LINE IN jack: Sensitivity 436 mV Headphones jack (stereo minijack):

For 16-64 ohms impedance

headphones

OPTICAL DIGITAL OUT (CD) jack: Wavelength 660 ± 30 nm

12.5 W + 12.5 W Maximum power output

-Continued on next page-

### PERSONAL COMPONENT SYSTEM SONY

9-959-782-12 2001E0400-1

**Sony Corporation** 

**Home Audio Company** 

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**Shinagawa Tec Service Manual Production Group** 

Power requirements UK model	For CD radio cassette-corder: 240 V AC, 50 Hz
AEP model	220–230 V AC, 50 Hz
Power consumption Dimensions	For remote commander: 3 V DC, 2 size AA (R6) batteries AC 55 W Unit: 180 x 254 x 285 mm (w/h/d) (7 1/s x 10 x 11 1/4 in.)
Mass Supplied accessories	Speaker:  150 x 254 x 229 mm (w/h/d) (6 x 10 x 9 ½ in.) (incl. projecting parts and controls) Approx. 12 kg (26 lb. 7 oz.) Remote commander RMT-C301 (1) FM aerial (1) MW/LW loop aerial (1)

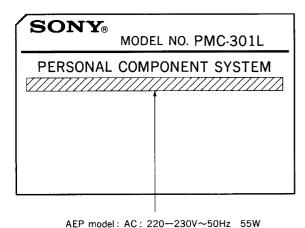
Design and specifications subject to change without notice.

### Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

### **MODEL IDENTIFICATION**

-Model Number Label-



UK model : AC : 220—230V~50Hz 55W

### NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the changed electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

### NOTES ON LASER DIODE EMSSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25cm away from the objective lens.

### **CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.



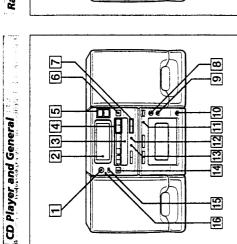
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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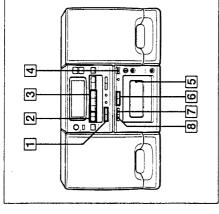


Radio and Tape player 

- Display window POWER switch
- CD operation buttons Dill (play/pause) Disc tray က 4

(stop)

- △ OPEN/CLOSE button (8-E) VOLUME button 9 2
- PRESET/AMS/SEARCH MA/PMbuttons (9, 16, 19, 20-E)
- MIC LEVEL control (28-E)
- HEADPHONES jack
- MIX MIC (mixing microphone) jack (28-E)
- KARAOKE button (29-E)
- MEGA BASS button (7-E) SOUND button (7-E)
- LINE button (28, 30-E) 8 6 9 1 2 8 7 9 9
- POWER STANDBY indicator
  Lights up to indicate whether the player is
  connected to the mains. The indicator lights
  regardless of whether the power is on or off. Remote sensor



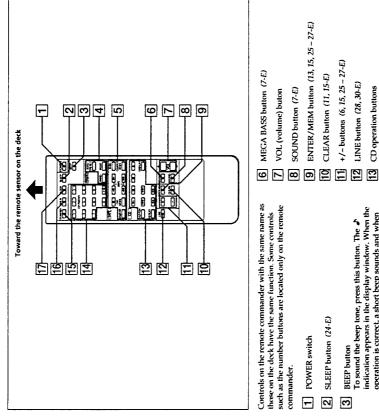
- TUNING +/- buttons (14-E) ⊡ 2
- BAND button (FMC-3011.) (14 16-E) BAND/SW BAND button (FMC-301S) (14 16-E)

က

- TAPE operation buttons
   (stop)
- △ (eject) button (17-E) Cassette compartment 4 2
- DUBBING HIGH SPEED button (20-E) 9 7 8

**←4**/**№** button (17-E)

●/II (record/pause) button (19, 20, 22, 23, 28-E)



1.81

Remote commander

See pages in ( ) for more details.

Index to Parts and Controls

Controls on the remote commander with the same name as those on the deck have the same function. Some controls such as the number buttons are located only on the remote

MEGA BASS button (7-E)

SLEEP button (24-E) POWER switch  $\Box$ 2

commander.

ENTER/MEM button (13, 15, 25 - 27-E)

SOUND button (7-E) VOL (volume) buton

+/-buttons (6, 15, 25 - 27-E)

CLEAR button (11, 15-E)

- BEEP button
  To sound the beep tone, press this button. The 
  indication appears in the display window. When the
  indication appears in the Cisplay window, When the operation is correct, a short beep sounds and when the operation is not correct, two long beeps sound. က
- RADIO operation buttons AUTO PRESET BAND MODE button 4

■ (stop)

△ (disc tray open/close)

SHUF/PGM

► (▶ ► (AMS)

DISPLAY

CD operation buttons

(play)

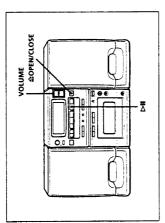
(pause) LINE button (28, 30-E)

- TAPE operation buttons /II (record/pause) ▲/▼ (play) (stop) 2
- DIR MODE

  ◆▲/▶▶ (fast forward/rewind)/AMS
  COUNTER RESET DOLBY NR (B type Noise Reduction)
- Number buttons (9, 11, 12, 15, 16-E) STANDBY button (25 - 27-E) ▲ / ▶ ▼ (search) 4 6 13 4
  - CLOCK button (6-E)

# Playing a CD (normal play)

You can operate the player from the deck or with the supplied remote commander. Also, you can play 12 cm (5 inch) and 8 cm (3 inch) CDs without an adaptor.



Press ≜ OPEN/CLOSE to open the disc tray. The power is turned on (direct power-on).



-5-

plays.)

2 Holding the CD by the edge, place the CD on the disc tray with the label side up.



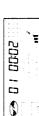
When a CD is in the disc tray, the indication appears in the display window. The disc track numbers and the total playing time appear in the display window. 



If the disc contains more than 16 tracks, the "OVER 16" indication appears in the display window.

### Press DII (play/pause). 4

When a CD is playing, the Marks once. The track runmber and playing time appear in the display window. Tracks disappear from the music calendar as they are played.



Between tracks, the remaining time before the next track is displayed.



(Be careful not to turn up the volume excessively while listening to a portion with very low audio input. If you do, the speakers may be damaged when a peak level Adjust the volume and audio emphasis (See Selecting the Audio Emphasis on page 7-E).

	Deck		₹	₹	First #, then 😩	POWER
Press	Remote	-	=	<b>A</b> 50 E	First ■, then ≜	POWER
To		Stop play	Pause	Resume play after pause	Remove the CD	Turn off the power

Note When the "no disc" indication appears, insert a CD in the disc tray.

# You can find the beginning of a track or a point in a track while the player is playing or paused. Find a particular track by specifying the track number.

Playing Specific Tracks

To listen to a specific track
Press the number on the remote commander for the track
you want to hear. Play starts immediately. To play tracks
with numbers equal to or greater than 10, press +10 first, then the number buttons 1 to 0. (See the examples below.)

	_			(3)	63
	<ul><li>○</li><li>↑</li></ul>	<u>U</u>		+10 + +10 + 3	2
e 10th track	个 []	-1	e 23rd track	<b>↑</b>	
Example To play from the 10th track	Press +	Display	To play from the 23rd track	Press +	Display
<u> </u>	<u> </u>		ř	<u> </u>	Δ

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¥ (¥

### To find the beginning of a track

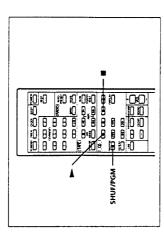
To find	Press*	
	Remote	Deck
the beginning of the	<b>F</b> ≰ once	AMS/SEARCH MA
current track		once
the beginning of the	¥	AMS/SEARCH MA
previous tracks	repeatedly	repeatedly
the beginning of the	<b>▶</b> once	AMS/SEARCH DO
next track		once
the beginning of the	Ŧ	AMS/SEARCH DO
succeeding tracks	repeatedly	repeatedly

### To find a point in a track

temote	Deck
n play mode, press	In play mode, keep pressing
◆◆ or ▶▶. Listen for the	AMS/SEARCH KHOLOF DON.
soint you want to hear.	Listen for the point you want to
	hear.
in pause mode, press	In pause mode, keyp pressing
◆◆ or ▶▶. Observe the	AMS/SEARCH MOD OF DOM.
lisplay.	Observe the display

# Playing Tracks in Random Order (shuffle play)

In shuffle play tracks play in mixed order. For example, instead of playing tracks 1, 2, 3 in order, they will play in any order such as 2, 1, 3.



1 Press **II** (stop) on the CD section to display "CD".

Press SHUF/PGM until the "SHUFFLE" indication appears in the display window.



Press 🚩 (play).

The tracks play in random order. When a track finishes, its track number disappears from the music calendar. When the all tracks have played once, the player is in the stop mode.



Press	on the CD section	SHUF/PGM until no indication appears in the display	
10	Stop play	Cancel shuffle play	

- You cannot display the remaining time on the CD during shuffle
- play.

   When you display "SHUFFLE" during normal play, shuffle play begins from the selection being played.

## Playing Tracks in the Desired Order (programme play)

You can programme up to 20 tracks to play in any order you choose.

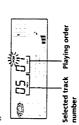
	• !
00000000000000000000000000000000000000	
Number	SHUF/PGM

Press III (stop) on the CD section to display "CD".

Press SHUF/PGM until the "PGM" indication appears in the display window.



3 Press the number buttons for the tracks you want played in the order you want them played (e.g., 5, 1, 9). Up to 20 tracks can be programmed.



## To check the total playing time while

While you are programming the tracks, press DISPLAY. The total playing time of the programmed selections will be displayed. programming tracks

If you make a mistake

Press CLEAR once and re-enter the track number.

Press **\rightarrow** (play).

The tracks play in the order programmed. The track numbers disappear as the selections are played. When the last track has played, all the programmed track numbers appear in the music calendar again

on the CD section

SHUF/PCM until no indication appears in the display Cancel programme play Stop play

To change the order of the tracks

Press ■ (stop) once if the CD is stopped and twice if the CD is playing. The current programme will be erased. Follow the steps in Playing Tracks in the Desired Order to create a new programme.

- Press 
   (stop) once when the CD is stopped. To erase the current programme
  - Open the disc tray.

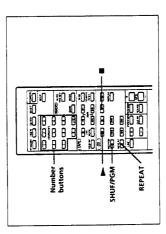
Notes

- If you press the CLEAR button while checking the programme, the last programmed track will be erased.
   The programme is stored in the player's momory. Whenever you press  $\Rightarrow$  (play) on the CO section in the PGM mode, you can play the same programme.

 $10 - \mathrm{E} \mid$  Chapter 2: the CD (Compact Disc) Player

# Playing Tracks Repeatedly

You can play tracks repeatedly in normal, shuffle or programme play modes. In shuffle play, the tracks play in a different order each time. Repeat only one track or all the



Press 🚩 (play).

### Repeating a single track

Press REPEAT until "REPEAT 1" appears in the display window.



m

Press the number of the track you would like repeated

# Repeating all the tracks

Press REPEAT until "REPEAT ALL" appears in the display window.



The player begins playing at the first track. When all the tracks have played once, the player starts playing from the first track again. Press 🚩 (play).

# Repeating tracks in random order

Press SHUF/PGM until the "SHUFFLE" indication appears in the display window.

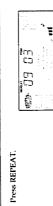


# Repeating programmed tracks

Checking the remaining time

Press SHUF/PGM until the "PGM" indication appears in the display window.

Press the number buttons on the remote commander for the tracks you want played in the order you want them played. ~



Press ► (play). The same programme plays repeatedly. 4

Press	on the CD section	REPEAT until no indication
To	Stop play	Cancel repeat play appears in the display

Notes

• While playing tracks repeatedly, the remaining time of the CD

• You can also repeat tracks while playing a CD.

### tracks are space than again and planting the Checking the order of programmed

Checking and Changing Time and Track Order

Before playing the CD, press ENTER/MEM on the remote commander. With each press, the selections appear in the programmed order.

If you press ENTER/MEM again at the last selection, you can continue to programme tracks after the last order.

# Changing the order of programmed tracks

**DISPLAY** 

ENTER/MEM

To change the order of the tracks, you must erase the current programme and create a new one. Press ■ (stop) once if the CD is stopped and twice if the CD is playing. The current programme will be erased.

### the programmed tracks and segments Checking the total playing time of

Before playing the CD, press DISPLAY on the remote commander. The total playing time appears.

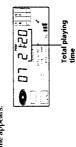
Ξ

20:L0-80 O

DISPLAY once

Remaining time on the current track

To display



50-82-60-60

DISPLAY twice

Remaining time on the CD and the number of tracks left

Ξ

18 58:10

DISPLAY in stop mode

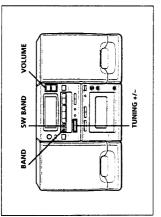
Playing time and number of tracks

• If the disc has more than 16 tracks, the "OVER 16" indication appears in the display window.

And it the disc has 21 tracks or more, the remaining time appears as "————".

# Listening to the Radio

Whenever you want to listen to the radio, press the BAND button. To quickly find and play your favourite radio stations, store them using the station auto- or manualpreset function described in the next three sections.



Press BAND until the band you want appears. The power is turned on (direct power-on).



First press BAND to display "SW"; then SW BAND to display the sub-band you want. The band meter appears followed by the frequency (see Specifications). (PMC-3015 only) To tune in an SW band:

Tune in a radio station either automatically or

manually.

TUNING +/-. Release it when the frequency digits automatically scans the radio frequencies and stops To tune manually: Press TUNING +/- once at a begin to change rapidly in the display. The player To tune automatically: Keep pressing when it finds a clear station.

If the radio tunes to an FM stereo broadcast, the "STEREO" indication appears.

time to tune in a station.



# Press VOLUME to actiust the volume and select the audio emphasis (see Selecting the Audio Emphasis on page 7-E).

m

To improve broadcast reception
FM: Connect an optional FM aerial (see page 4-E).
SW/MW/LW: Reorient the supplied SW/MW/LW loop aerial or connect an optional insulated wire (see page 5-E)

# (PMC-3015\* only) Changing the MW tuning

The MW tuning interval is preset to 9 kHz at the factory. If you need to change the interval:

2 Wait until the time indications disapear from the display 1 Turn off the power and disconnect the mains lead.

(approximately 2.5 hours).

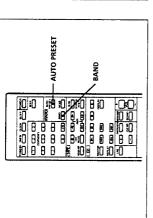
3 Change the position of the MW TUNING INTERVAL

After changing the MW tuning interval, reset the current time, preset radio stations and timer settings.

• excluding models for Germany and Italy selector (at the rear of the player).

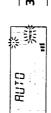
### Stations Automatically Presetting Radio

You can preset radio frequencies with good reception automatically by pressing the AUTO PRESET button. You can preset up to 36 radio stations, 12 for each band and tune in your favourite stations at a touch of a button.



Press BAND until the band you want appears.

The "AUTO" indication appears for 2 seconds and the "PRESET" indication blinks. Low to high frequency stations with gwad reception will be automatically Depress and hold AUTO PRESET for about 2 seconds. preset in numerical sequence from the number 1.



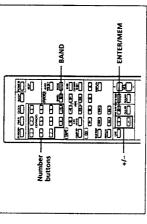
To add stations that cannot be preset automatically because their signal strength is too weak, follow steps 1 – 5 in Presetting Radio Stations Manually on this page.

# You can store radio frequencies in the player's memory to tune in your favourile stations at a touch of a button. You can preset up to 36 radio stations in any order, 12 for each

Stations Manually

**Presetting Radio** 

band.



Press BAND until the band you want appears.

2 Depress and hold ENTER/MEM for about 2 seconds or



Decide on a preset number for the station with the 3 Tune in your favourite station by pressing +/-. number buttons. 4

if you make a mistake Press CLEAR.

The last presetting is erased. Proceed from step 1.

Press ENTER/MEM. Your favourite station is stored in memory.

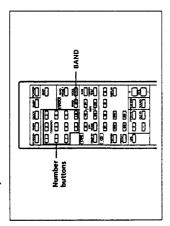


FM 89.20 has been stored on preset number 6.

# Playing Preset Radio Stations

Playing a Tape

Once you have preset the stations, use the number buttons to tune in your favourite stations.



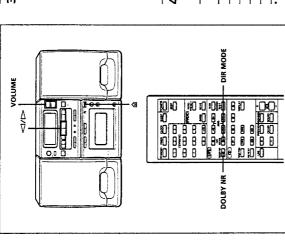
- Press BAND until the band you want appears.
- Select the desired preset number with the number For numbers greater than 9 press +10 and another

9

Selecting on the deck
Press BAND to select the band. Then, press
PRESETM△ID™ to select the desired preset number.

### To erase a preset station

Storing a new station on a previously used preset number will crase the old station and replace it with the new one.





2 Press ▷ (to play the front side) or △ (to play the reverse side) to turn the power on (direct power-on) and start playing.

Press DIR MODE on the remote commander to choose the tape transport direction mode.

Display shows	11	n	1
to play	One side of the tape	Both sides of the tape from the front side to reverse side only*	Both sides of the tape

\* If play begins from the reverse side, the tape stops at the end of that side. repeatedly

F 00

Adjust the volume and the audio emphasis (see Selecting the Audio Emphasis on page 7-E).

Press	on the TAPE section	►► on the TAPE section	◆◆ on the TAPE section	41	POWER	
To	Stop play	Fast forward*	Rewind*	Remove the cassette	Turn off the power	, , , , , , , , , , , , , , , , , , , ,

For the side facing forward.

Note While winding, the ←← or ▶► indication appears in the display

# To listen to a tape recorded with the Dolby\* B-type noise reduction system

Press DOLBY NR on the remote commander until the "III DOLBY B NR" indication appears in the display window. Dolby noise reduction system reduces tape hiss noise in low-level high-frequency signals.

When you listen to a tape that wasn't recorded with DOLBY B NR, press DOLBY NR until the "III DOLBY B NR" indication disappears.

\* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and double-D symbol III are trademarks of Dolby Laboratories Licensing Corporation.

Continued on next page

## Playing a Tape (continued)

### To use the tape counter

- · The display shows the tape counter while playing or
- The number of the tape counter moves conversely while
- playing or recording the reverse side.
- It is recommended that before recording, write down the number of the tape counter or reset the tape counter with the COUNTER RESET button.

The tape is identified automatically (ATS\* system) When a cassette is inserted into the cassette compartment, the player automatically identifies the type of tape via the ATS system which "reads" the corresponding holes in the

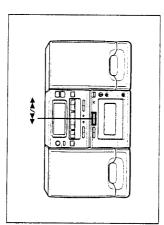
ATS: Automatic Tape Selector

Recording	Can be used	Can be used	Can be used
Playback	Can be used	Can be used	Can be used
Tape type	TYPE I (normal)	TYPE II (CrOz)	TYPE IV (metal)

Using the AMS (Automatic Music Sensor) function you can quickly find the song you're looking for. The player senses where a track begins by detecting the pauses between the tracks.

Finding the beginning

of a song (AMS)



While playing a tape, press ← or ▶▶

Reverse side	1	¥
Front side	¥	1
To find	the beginning of the currrent track	the beginning of the next track

If a soft sound like pianissimo continues for some seconds in a track, the AMS function may operate and start to play as the next track.

<del>--</del>10--

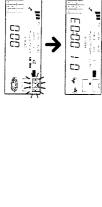
•If you press the <code>44</code> or <code>bP</code> button when there is no sound in the track, the AMS function does not oprerate correctly.

You can record a CD as you like, for instance, by recording just the songs you want or record from the middle of the

Recording a CD Manually

6 While keep pressing ●/II (record/pause), press ◀ or

Recording starts after 8 seconds.



= \ -

DIR MODE

DOLBY NR -

Do not press any buttons that change the function (for example, the **E** (stop) button on the TAPE section) while recording, If the function changes from CD to any other function, recording will

The recording level is adjusted automatically Adjusting the volume or the audio emphasis will not affect the recording level.

	I on the CD section	
Press	en th	=/●
To	Stop recording	Pause during record

The tape stops automatically (CD synchronized stop). When the CD finishes while recording

Press DIR MODE to choose the tape transportation

Press (stop) on the CD section.

m

Insert a blank tape.

Insert a CD.

Display shows

រងន្ត្រីប្រ

One side of the tape

To record mode.

To start recoding on the deck
Press <1/□ within 8 seconds after pressing ●/II (record/pause).

Select the desired track with the 144/11 button and start To record from the desired track recording.

Syncronized reverse recording is the function that if the tape on the front side reaches its end in the middle of a track

Û

Both sides of the tape from the front side to reverse side only Synchronized reverse recording\*

while recording, recording on the reverse side starts from the begining of the track.

\*\* When pressing the •/II (record/pause) button ,the CD indication is changed to D.

To record in PGM (programme) mode

- Press (stop) on the CD section.
   Select PGM play (See Playing Tracks in the Desired Order
  - (programme play) on page 11-E.

    3 Press ← or ▷ within 8 seconds after pressing

    •/Il(record/pause).

5 When you want to record using the Dolby Noise Reduction system, press DOLBY NR. The "CD DOLBY B NR" indication appears in the display window.

Ē

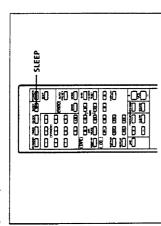
į,

12 58:08

100

# Falling Asleep to Music

You can set the player to turn off automatically, so you can go to sleep to music.



Play the desired music source and adjust the volume.

Press	★ (to play the front side) or ★ (to play the revierse side)	BAND, and tune in a station	► on the CD section	LINE	
To play	a Tape	the Radio	aCD.	Other music source	

Press SLEEP.

The "SLEEP" indication appears in the display



As the sleep timer starts, the display back light goes out. The player plays for 60 minutes, then shuts off automatically.

To cancel the sleep function Press POWER. About the volume of the sleep timer

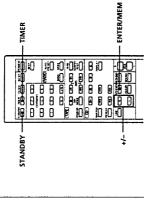
Your personal component system has the fade out function.

When the player shuts off, the setting volume fades out

### -Falling asleep and waking up to different music

Set the wake up timer by following steps 1-6 in Waking Up to Music on the next page.

Activate the sleep function by following steps **1 – 2** in *Falling Asleep to Music* on this page.



Prepare the desired sound source.

Do this	Insert a tape	Tune in a station	Place a CD on the disc tray	Turn on the equipment connected to LINE IN (for details, see the instruction manual supplied to the equipment)	
To play	a Tape	the Radio	aCD.	Other music source	

You can play a CD in any play mode.

2 Press TIMER, the © (clock) and "Pb" (playback) or "REC" (record) indications blink. Select "Pb" by pressing +/-, then ENTER/MEM.



Select the music source ("CD", "RADIO", "TAPE", or "LINE") by pressing +/-, then ENTER/MEM.

### Set the timer. 4

You can wake up to music at a preset time. Make sure the current time is correct. If it is not, reset it referring to the section Setting the Clock on page 6-E. Make sure the  $\Theta$  (clock) indication is not lit in the display window.

Waking Up to Music

1 Set the timer to the hour you want the music to go on by pressing +/-, then ENTER/MEM. Set the minutes, then press ENTER/MEM.



Set the timer to the hour you want the music to go off by pressing +/-, then ENTER/MEM. Set the minutes, then press ENTER/MEM.



Set the volume by pressing +/-, then ENTER/MEM.

6 Press STANDBY.

The © (clock) indication lights and the power goes off.



on. When the selected sound source is a tape, the tape transport direction mode becomes ( $\square$ ) automatically. At function while the timer is operating even if the power is music will play. The "ON" and "OFF" indications appear in the display window. The display back light does not At the preset turn-on time, the power will go on and the the preset turn-off time the power will go off again.

Each time you press the ENTER/MEM button, each stored setting appears. After you have checked the time, press TIMER again. To check when the player will go on Press TIMER, then ENTER/MEM.

Continued on next page

# Waking Up to Music (continued)

Fimer-Recording Radio

**Programmes** 

### To cancel the timer

Press STANDBY In make the @ (clock) indication disappear from the display window.

# To have the player go on the next day at the same

You need not set the timer again. The preset time and the display window, press STANDBY to reactivate the timer. sound source you chose are stored in memory until you reset them. If the  $\Theta$  (clock) indication is not lit in the

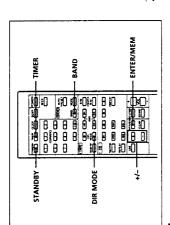
### To change the preset time

Press TIMER, then ENTER/MEM to display what you want to change. Re-enter the setting and press TIMER.

### About the volume of the sound

sound starts to play with lower volume than the setting Your component system has the fade in function. The and gradually will become the set volume.

Make sure the current time is correct. If it is not, reset it referring to the section Setting the Clock on page 6-1. Make sure the  $\Theta$  (clock) indication is not lit in the display You can set the timer to record the radio at a certain time.



- Tune in the radio station you want to record.
- Insert a blank tape with the side you want to record on facing forward.
- Select dual or single-sided recording by pressing DIR

Display shows	11	ก
To record	One side of the tape	Both sides of the tape from the front side to reverse side only

Press TIMER, the ② (clock) and "Pb" (playback) or "REC" (record) indications blink. Select "REC" by pressing +/-, then ENTER/MEM.



Press +/- until "RADIO" appears, then ENTER/MEM

### 1 Set the timer to the hour you want the music to go on by pressing +/-, then ENTER/MEM. Set the minutes, then press ENTER/MEM. Set the timer.



Set the timer to the hour you want the music to go off by pressing +/-, then ENTER/MEM. Set the minutes, then press ENTER/MEM.

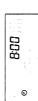
time



record by pressing +/-. If you do not want the sound come out, set the volume to "0". Then press ENTER/ Set the volume you want the radio programme to

∞

The  $\Theta$  (clock) indication lights and the power goes off automatically. Recording will start from the front side Press STANDBY. of the tape.



will go off again at the preset turn-off time. "ON" and "OFF" will disappear from the display window. The display back light does not function even if the power "OFF" will appear in the display window. The power automatically and recording will start. "ON" and At the preset turn-on time the power will go on is on.

### To check when recording will start

ENTEK/MEM, a stored setting (including the volume) lights up. When you finish checking, press TIMER again. The display which was lit before you pressed TIMER will Press TIMER, then ENTER/MEM. Each time you press

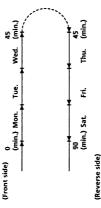
### To cancel the timer

Press STANDBY to make the @ (clock) indication disappear.

# To have the player go on the next day at the same

timer. If the tape transport direction is 🖒, you can record sound source you chose are stored in memory until you reset them. If the  $\Theta$  (clock) indication does not appear in You need not set the timer again. The reset time and the the display window, press STANDBY to reactivate the When the reverse side of the tape is finished recording, both sides from the front side to reverse side everyday. timer-recording cannot continue.

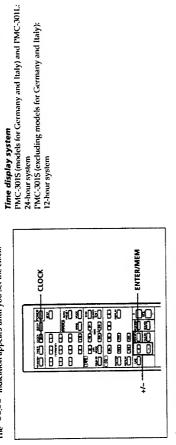
Example: Recording a 15 minute-programme every 6 days. (Using a 90 minute-tape)



Timer-recording starts from the reverse side of the tape. When you record from the front side of the tape, press STANDBY to make the  $\Theta$  (clock) indication disappear, then When the tape side recorded is - (reverse side) press STANDBY again.

To check the time while playing a CD or the radio Press CLOCK. The current time appears.

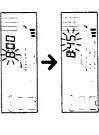
To return to the previous display, press CLOCK again.



Depress and hold CLOCK until the hour digit blinks. (PMC-3015° only) The "AM" or "PM" indication also blinks. excluding models for Germany and Italy



Set the current hour by pressing +/- until the correct hour is displayed. Then press ENTER/MEM. The minute digils flash. Set the minute by pressing +/- until the correct minute is displayed.





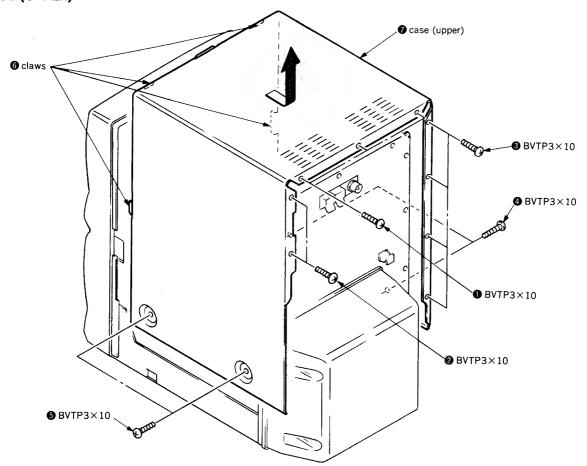
**3** Press CLOCK again. The clock starts from 00 seconds.

6-E Chapter 1: Setting Up

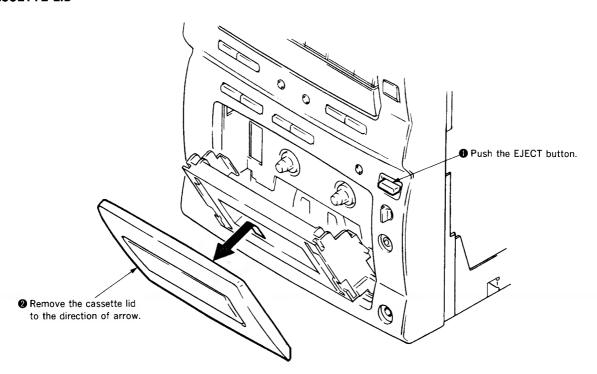
### SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

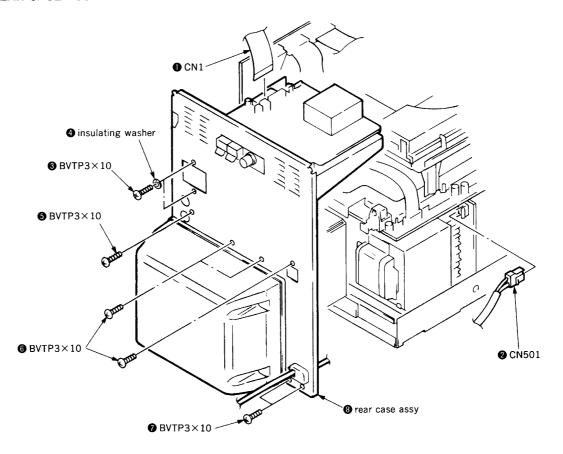
### 2-1. CASE (UPPER)



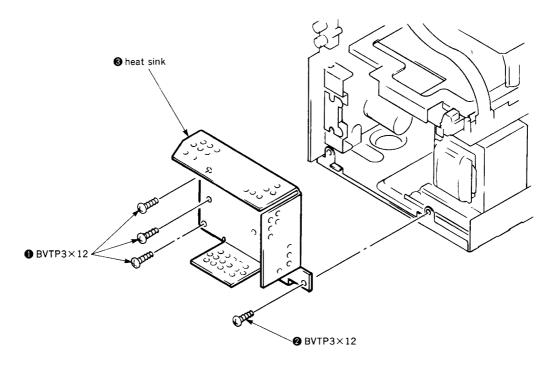
### 2-2. CASSETTE LID

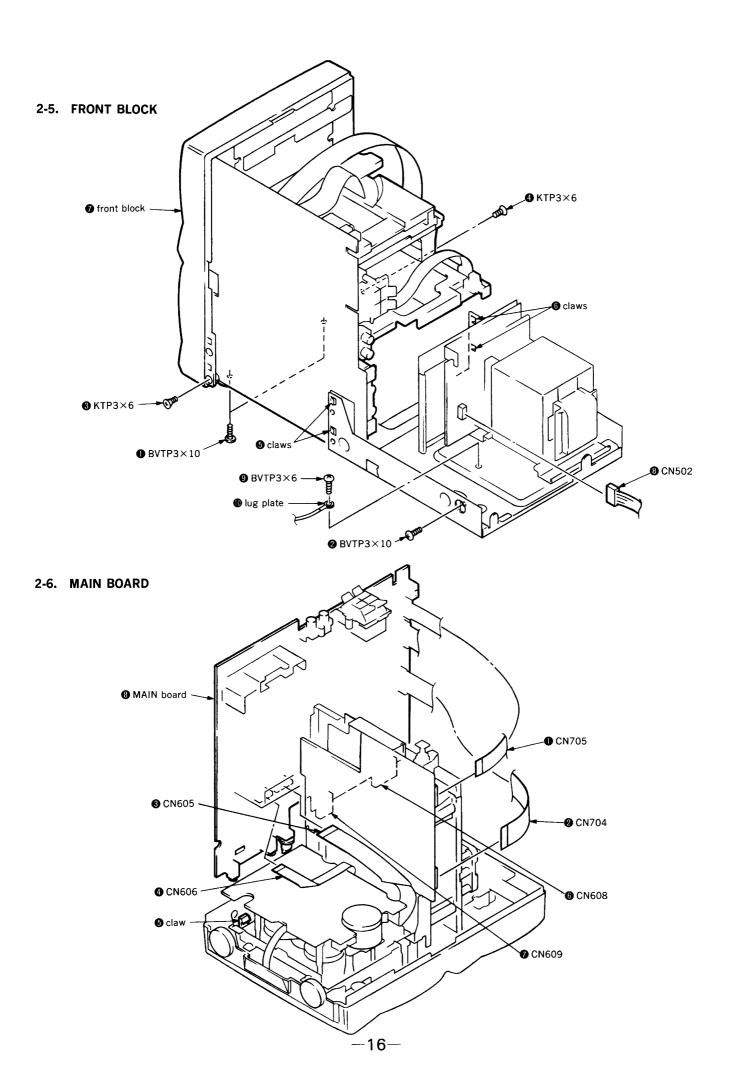


### 2-3. REAR CASE ASSY

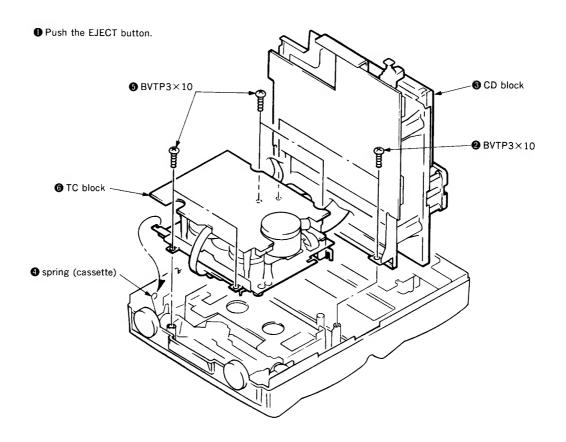


### 2-4. HEAT SINK

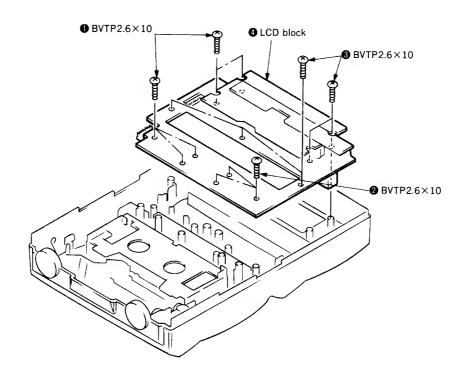




### 2-7. CD BLOCK, TC BLOCK



### 2-8. LCD BLOCK



### SECTION 3 MECHANICAL ADJUSTMENTS

### **PRECAUTION**

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playbcak/erase head idlers

pinch rollers rubber belts

capstan

- 2. Demagnetize the record/playback/erase head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed in the order given in this service manual.

### **Torque Measurement**

Torque	Torque meter	Meter reading
Forward	CQ-102C	22.5—50g•cm (0.31—0.69oz•inch)
Forward back tension	CQ-102C	1.5—5g•cm (0.021—0.069oz•inch)
Reverse	CQ-102RC	22.5-50g•cm (0.31-0.69oz•inch)
Reverse back tension	CQ-102RC	1.5-5g•cm (0.021-0.069oz•inch)
Fast Forward	CQ-201B	<b>※</b> 140−180g•cm (1.94−2.50oz•inch)

\*\* Before the fast forward torque measurement, the record/playback/erase head is turn to forward mode.

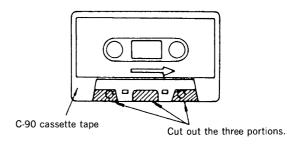
### **Tape Tension Measurement**

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 100g
Reverse	CQ-403R	(more than 3.53 oz)

### Head Height Adjustment

### Procedure:

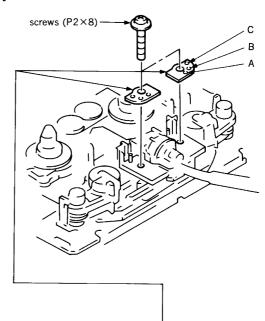
1. If one does not have a mirror cassette CQ-009C (8-909-708-01), cut out the three portions of a 90-minute cassette tape shell as indicated below and use that cassette tape.



- 2. Set to the FWD playback mode. Loosen the FWD tape guide fixing screw and adjust with inserting the head height adjustment shim to eliminate tape curl and tape twist in the portions of tape guide and head.
- 3. Set to the REV playback mode. Loosen the REV tape guide fixing screw and adjust with inserting the head height adjustment shim to eliminate tape curl and tape twist in the portions of tape guide and head.
- 4. After the adjustments, apply suitable locking compound to the screws ( $P2 \times 8$ ).

**Note)** Make the assembly do not touch the NR slider for head height adjustment shims.

### Adjustment Location:



Head height adjustment shims

Part No.	t	Holes		
3-384-356-01	0.30±0.02	without		
3-384-356-11	0.35±0.02	Α		
3-384-356-21	0.40±0.02	В		
3-384-356-31	0.45±0.02	С		
3-384-356-41	0.50±0.02	without		

### SECTION 4 ELECTRICAL ADJUSTMENTS

### 4-1. DECK SECTION OdB=0.775V

### **PRECAUTION**

- 1. The adjustments should be performed in the order given in this service manual. As a rule, adjustments about playback should be performed before those about recording.
- 2. The adjustments should be performed before for both L-CH and R-CH.
- 3. Function mode ······TAPE

### Standard Input Level

Input terminal	MIX MIC	LINE IN
Signal source impedance	600Ω	600Ω
Input signal level	2.5mV (-50dB)	0.44V (-5dB)
Frequency	1kHz	1kHz

### **Standard Output Level**

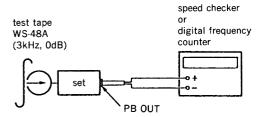
Output terminal	SP OUT (L, R)	H. P OUT	DOLBY OUT
Load impedance	4Ω	32Ω	no load
Output signal level	0.775V (0dB)	0.25V (-10dB)	0.28V (-8.8dB)

### **Test Tape**

Type	Signal	Used for
WS-48A	3kHz, 0dB	tape speed adjustment
P-4-L300	315Hz, 0dB	playback level, record/ playback/erase head azimuth and phase adjustments
P-4-A063	6.3kHz, -10dB	record/playback/erase head azimuth and phase adjustments
CS-123		record bias, record level adjustments

### **Tape Speed Adjustment**

### **Procedure:**



- 1. Set to the FWD playback mode.
- 2. Adjust RV303 so that the reading on the digital frequency counter is within the adjustment value below.

### Adjustment Value: normal speed

Speed checker	Digital frequency counter
-0.67 to $+0.67%$	2,980 to 3,020Hz

Frequency difference between REV side should be within  $\pm 1\%$  (30Hz).

- 3. Short the High/Normal speed select point and set to the High speed playback mode.
- 4. Adjust RV304 so that the reading on the digital frequency counter is within the adjustment value below.

### Adjustment Value: high speed

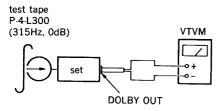
Speed checker	Digital frequency counter
-0.67 to +0.67%	5,960 to 6,040Hz

Frequency difference between REV side should be within  $\pm 1\%$  (60Hz).

Adjustment Location: See page 22.

### Playback Level Adjustment

### **Procedure:**



 Set to the FWD playback mode and adjust RV101 (L-CH) and RV201 (R-CH) so that the reading on the VTVM is within the adjustment value below.

### Adjustment Value:

DOLBY OUT level: 0.17 to 0.19V (-12.2 to -13.2dB) Level difference between channels: within 0.3dB

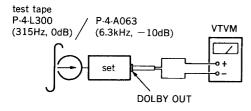
Confirm that the DOLBY OUT level does not change even if playback or stop operation is repeated several time.

Set to the REV playback mode and confirm that the DOLBY OUT level difference between FWD playback mode is within 0.5dB.

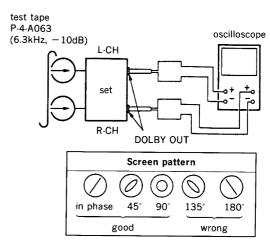
Adjustment Location: See page 22.

### Record/Playback/Erase Head Azimuth and Phase Adjustments

### Procedure:

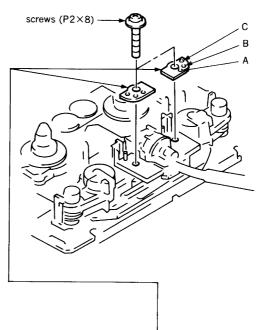


- Set to the FWD (REV) playback mode with P-4-L300 and reading on VTVM.
- 2. Set to the FWD (REV) playback mode with P-4-A063 and confirm that the reading on the VTVM is within  $-12\pm$  2dB relative to the P-4-L300 playback level.
- 3. If the confirmation value are not satisfied, replace the adjustment shims and repeat the steps 1 and 2.



- 4. Set to the FWD (REV) playback mode and confirm that the screen pattern.
- 5. After the adjustments, apply suitable locking compound to the screws ( $P2\times8$ ).

### Adjustment Location:



Head height adjustment shims

Part No.	t	Holes
3-384-356-01	0.30±0.02	without
3-384-356-11	0.35±0.02	Α
3-384-356-21	0.40±0.02	В
3-384-356-31	0.45±0.02	С
3-384-356-41	0.50±0.02	without

### **Record Bias Frequency Adjustment**

### Procedure: digital frequency counter set erase head micro inductor (33mH)

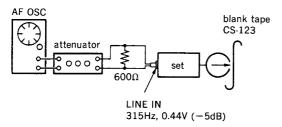
- 1. Set to no signal record mode.
- 2. An approach the micro inductor to the core portion of erase head.
- 3. Adjust T301 so that the reading on digital frequency counter is within  $107.5\pm2kHz$ .

Adjustment Location: See page 22.

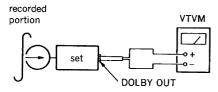
### **Record Level Adjustment**

### Procedure:

1. Mode: record



2. Mode: FWD playback



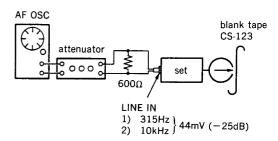
- 3. Confirm that the DOLBY OUT level difference at record and playback is within  $0\pm0.5\text{dB}$  relative to the DOLBY OUT level at 315Hz with -5dB inputs from LINE IN. If the confirmation value are not satisfied, adjust RV102 (L-CH) and RV202 (R-CH) and repeat the steps 1 and 2.
- 4. Confirm that the REV playback mode is within confirmation value.

Adjustment Location: See page 22.

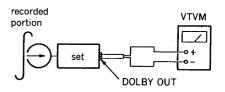
### **Record Bias Adjustment**

### Procedure:

1. Mode: record



2. Mode: FWD playback



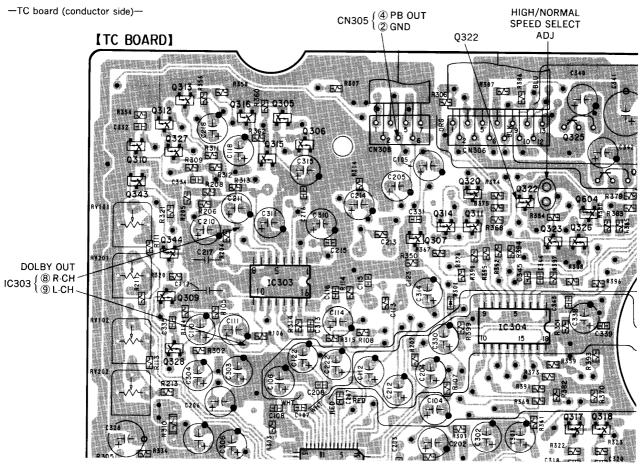
3. Confirm that the DOLBY OUT level difference between 315Hz with  $-25\rm dB$  and  $10\rm kHz$  with  $-25\rm dB$  is within  $0\pm1\rm dB$ .

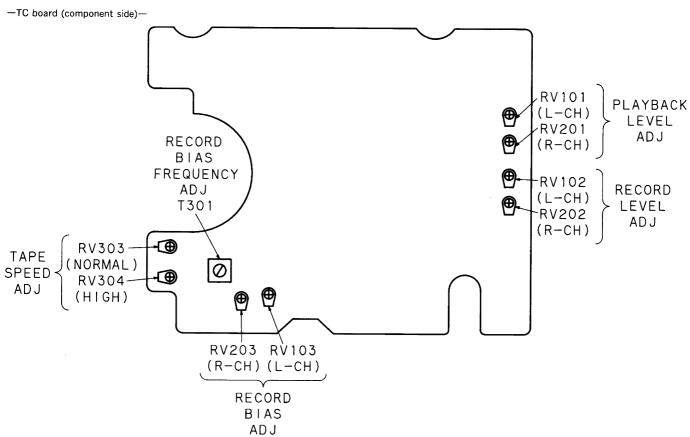
If the confirmation value are not satisfied, adjust RV103 (L-CH) and RV203 (R-CH) and repeat the steps 1 and 2.

4. Confirm that the REV playbakc mode is within confirmation value.

Adjustment Location: See page 22.

### **Deck Section Adjustment Location:**





### 4-2. TUNER SECTION OdB= $1\mu$ V

### • FM Section

### Setting:

BAND switch: FM

FM rf signal generator

FM antenna terminal (TB1)

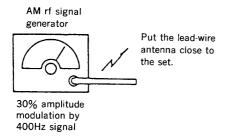
22.5kHz frequency deviation by 400Hz signal

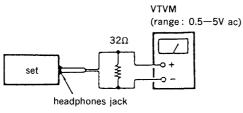
### • MW/LW Section

### Setting:

BAND switch: MW/LW

output level: as low as possible





• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

### Tuner Section Adjustment Location:

—TUNE	R board (component side)—
TRACKING CT3 ADJ  LW TRACKING CT2 ADJ  L20	TOTAL TRACKING ADJ
—ANT COIL board (component side)—	CT4 FM IF LW ADJ FREQUENCY COVERAGE ADJ

FM TRACKING ADJUSTMENT	
Adjust for a maxir	num reading on VTVM.
L1	CT1
87.5MHz	108.0MHz

FM IF ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T1	
10.7MHz	

MW FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximu	m reading on VTVM.
L4	CT5
531kHz	1,611kHz

MW TRACKING ADJUSTMENT	
Adjust for a maximu	m reading on VTVM.
L20	CT3
621kHz	1,404kHz

LW	FREQUENCY COVERAGE ADJUSTMENT
Adjust for	a maximum reading on VTVM.
	CT4
	153kHz

LW TRACKIN	IG ADJUSTMENT	
Adjust for a maximum reading on VTVM.		
L21	CT2	
162kHz	261kHz	

### 4-3. CD SECTION

### **Notes on Adjustment**

- 1. Perform Traverse adjustment in test mode.

  After adjustment, be sure to release test mode.
- 2. Perform adjustments in the order given.
- 3. Use the disc (YEDS-18, Part No. 3-702-101-01) only when so indicated.
- 4. Short the both sides of C735 for stop operation of antishock circuit.
- Switch position Function······CD

### Before Adjustment

Put the set into test mode and perform the following checks. Repair if there are any problems.

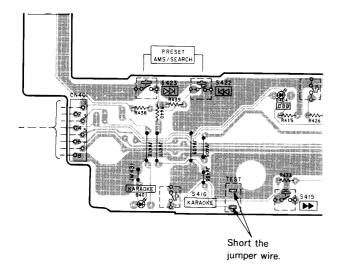
### In case of Test Mode

- 1. Short the TEST pattern on SW board with jumper wire.
- 2. While press the SOUND and KARAOKE buttons, insert the AC power supply.
- 3. The LCD back light is turn on, and later release the shorted jumper wire.
- 4. Then the LCD indicates [ ] \_\_\_\_\_, the test mode is set.

### • Release the Test Mode

Push OFF the POWER button, the test mode is release.

SW board (conductor side)



### Sled Motor Check

Press the DD, MD buttons and confirm that the FOP moves smoothly from the innermost to outermost circumference and back smoothly and with no catching or abnormal noises.

DD: FOP moves to the outer circumference

### • Focus Search Check

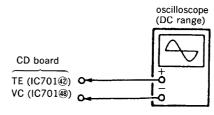
- 1. Push the ▷ [[[] button. (Focus search operation is performed continuously.)
- 2. Look at the FOP objective lens and confirm the it moves up and down smoothly, with no catching or abnormal noises.
- 3. Push the button.

  Confirm that focus search operation stops. If it does not, push the button again longer.

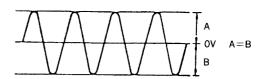
### Traverse Adjustment

This adjustment is to be done when the optical pick-up block is replaced.

### Procedure:



- 1. Connect the oscilloscope between TE and VC.
- 2. Put the set into test mode. (LCD indication: ☐☐ ☐ ---- )
- 3. Push the ≜ button to open the tray and insert disc (YEDS-18).
- 4. Push the ≜ button once more to close the tray. (LCD indication: M∏ ☐ ----)
- 5. Press the  $\triangleright \mid \mid$  and  $\mid \triangleleft \triangleleft \mid$  buttons to move the FOP to the center.
- 6. Push the  $\triangleright$  [][] button. (LCD indication:  $\triangleright$   $\triangleright$   $\triangleright$  )
- 7. Push the  $\blacksquare$  button. (LCD indication: 5 + 7 + 9)
- 8. Push the  $\triangleright$  [[] button. (LCD indication :  $\square$   $\square$   $\square$   $\square$  )
- Adjust RV704 so that the oscilloscope traverse waveform is symmetrical, as shown in the figure below.
- 10. Release the test mode after adjustment is completed.

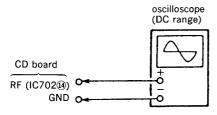


Adjustment Location: See page 27.

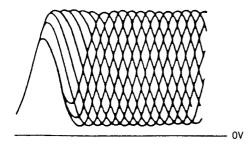
### Focus Bias Adjustment

This adjustment is to be done when the optical pick-up block is replaced.

### Procedure:



- 1. Connect the oscilloscope between RF and GND.
- 2. Insert disc (YEDS-18) and push the  $\triangleright \parallel \parallel$  button.
- 3. Adjust RV701 so that the oscilloscope waveform is maximum as shown in the figure below (eye pattern).
- RF signal reference waveform (eye pattern)



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

Adjustment Location: See page 27.

### REFERENCE

### Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

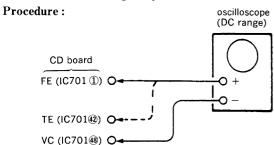
When gain adjustment is off, the symptoms below appear.

Gain Symptoms	Focus	Tracking
<ul> <li>The time until music starts becomes longer for ■ → ▷ [] on automatic selection.</li> <li>( ⋈ , ▷) buttons pressed.) (Normally takes about 2 seconds.)</li> </ul>	low	low or high
<ul> <li>Music docs not start and disc continues to rotate for  → ▷ □□ or automatic selection. (⊸, ▷ buttons pressed.)</li> </ul>	_	low
• Sound is interrupted during PLAY. Or time counter display stops progressing.		low
• More poise during 2-axis device operation.	high	high

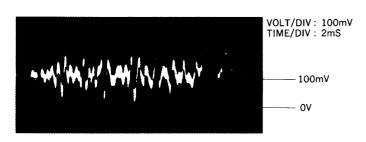
The following is a simple adjustment method.

### -Simple Adjustment-

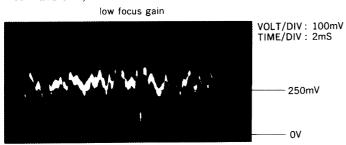
**Note:** Since exact adjustmeunt cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

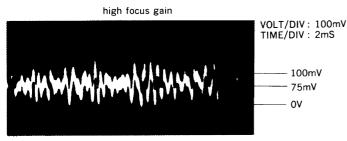


- 1. Keep the set horizontal.
  - If the set not horizontal, this adjustment cannot be performed due to the gravity against the 2 axis device.
- 2. Insert disc (YEDS-18) and push the  $\triangleright [][]$  button.
- 3. Connect oscilloscope to FE on the CD board.
- 4. Adjustment RV702 so that the waveform is as shown in the figure below. (focus gain adjustment)
- Correct Example



• Incorrect Examples (DC level changes more than on adjusted waveform)

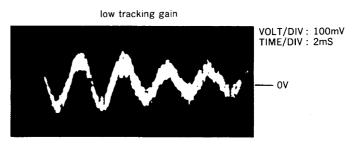




- 5. Connect oscilloscope to TE on the CD board.
- 6. Adjust RV703 so that the waveform is as shown in the figure below. (tracking gain adjustment)
- Correct Example



• Incorrect Examples (fundamental wave appears)



high tracking gain (higher fundamental wave than for low gain)



Adjustment Location: See page 27.

### SECTION 5 DIAGRAMS

5-1. PIN DESCRIPTION
• System Control (IC622 CXP84124-016Q)

Pin No.	Pin Name	1/0	Pin Description
1	VOFF	0	Not used.
2	TA. B	I	Erase proof switch input of tape reverse side.
3	TA. A	I	Erase proof switch input of tape forward side.
4	T. HP	T	Head position switch input of tape.
5	AMS	I	AMS signal input of tape.
6	T. DET	I	Cassette detection switch input of tape.
7	T. OE	0	Enable control output of tape.
- 8	T. LCK	0	Load clock output of tape.
9	V. SCL	0	Serial clock output of electric volume.
10	V. SDA	0	Serial data output of electric volume.
11	ECHO1	0	Not used.
12	ECHO2	0	Not used.
13	ECHO3	0	Not used.
14	MIC/DET	1	Not used.
15	FUN1	0	Function select output
16	FUN2	0	Function select output
17	SOUNDI	0	Sound mode select output
18	SOUND2	0	Sound mode select output
19	KARA	0	KARAOKE LED output
20	ECHO	+ 0	Not used.
21	SOUND	0	SOUND LED output
- 22	B. MUTE	0	Block mute output
	SP. MUTE	10	Not used.
23	A. MUTE	0	Audio mute output
25	NC NC	0	Not used.
	NC -	0	Not used.
26	BL	0	Back light control output of display.
	P. CON	0	Power supply control output
28	SIFT	0	Shift clock output
29	RST	1	Reset input
30	EXTAL	- <del> </del> 1	4.19MHz oscillator input
31		0	4.19MHz oscillator output
32	VSS	-	GND
33			32.768kHz oscillator output
34	TX	0	
35	TEX	1	32.768kHz oscillator input
36	AVSS	1	AD GND AD reference voltage input
37	BU5V	1 	Key input
38	KEY1	1	
39	KEY2	1	Key input Key input
40	KEY3	1 I	
41	SEL1		Destination setting input
42	SEL2	I	Destination setting input
43	9/10K	I	9k/10k step select input of AM.
44	9VCHK	1	Decrease voltage detection of 9V.  OPEN/CLOSE detection switch input of CD tray.
45	OPN/CLS	I	
46	L. CD	0	Command/data select output of LCD data.

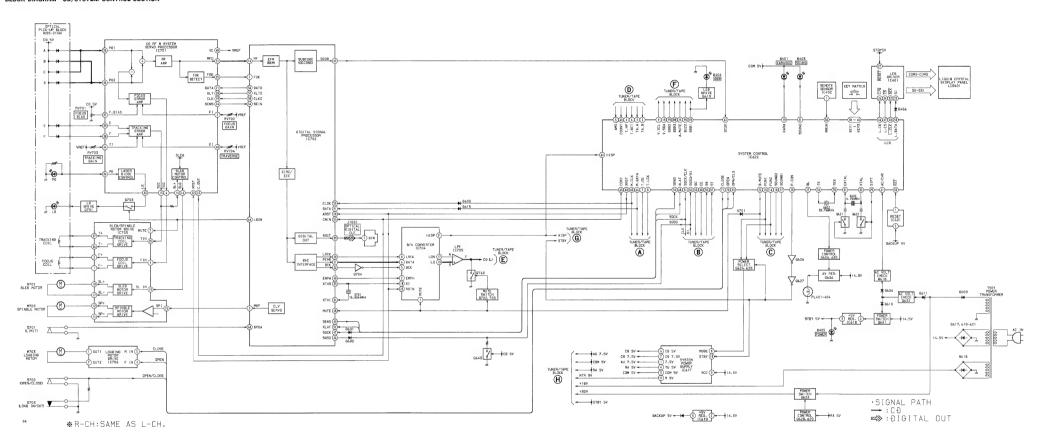
Pin No.	Pin Name	1/0	Pin Description	
47	L. CS	0	Chip select output of LCD driver.	
48	L. CLK	0	Serial clock output of LCD.	
49	NC	0	Not used.	
50	L. DATA	0	Data output of LCD.	
51	SQCK/CLK	0	Sub Q data read-out clock of CD and lock data input clock of radio.	
52	SQSO/DI	I	Sub Q data input of CD and lock data input of radio.	
53	DO	0	Frequency data output of radio.	
54	SENS	I	SENSE signal input of CD.	
55	SD	I	Signal detection input of radio.	
56	RMIN	I	Remote commander signal input.	
57	ST	I	Stereo signal input of radio.	
58	CE	0	PLL IC chip enable output of radio.	
59	BEEP	0	Beep sound output	
60	COUNT	I	Tape counter signal input	
61	AC/CHK	I	AC input detection	
62	SCOR	I	Sub code sync detection signal input of CD.	
63	CONT	I	Track jump count signal input of CD.	
64	HISP	0	Hi-speed/normal-speed select output of CD.	
65	M. CLK	0	Serial clock output of tape and CD.	
66	M. DATA	0	Serial data output of tape and CD.	
67	NC	I	Not used.	
68	XLAT	0	Serial data latch output of CD.	
69	XRST	0	System reset output of CD.	
70	OPEN	0	Loading motor drive output of CD. (open)	
71	CLOSE	0	Loading motor drive output of CD. (close)	
72	BU5V		VDD	
73	NC		Not used.	
74	CGLAT	0	Not used.	
75	S. MUTE	0	Not used.	
76	VSW	0	Not used.	
77	G. DISC	I	CDG detection input	
78	DBB1	0	Dynamic bass boost control output	
79	DBB2	0	Dynamic bass boost control output	
80	DBB3	0	Dynamic bass boost control output	

CD board (component	side)—			
		TRAVERSE TADJ CONTROL RV704		
			RV701 FOCUS BIAS ADJ	
		-27-		

[CD BOARD]

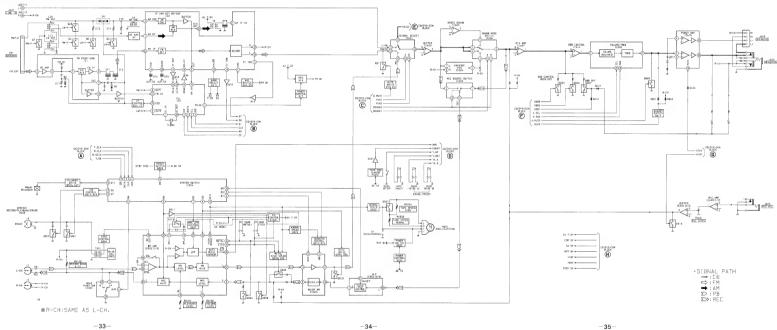
CD Section Adjustment Location: -CD board (conductor side)-

### 5-2. BLOCK DIAGRAM-CD/SYSTEM CONTROL SECTION-



-30-

### 5-3. BLOCK DIAGRAM-TUNER/DECK SECTION-

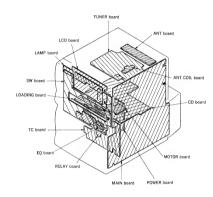


-34-

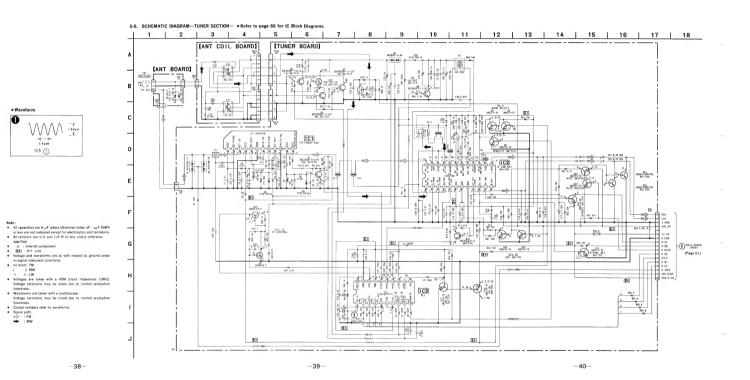
-36-

-35-

### 5-4. CIRCUIT BOARDS LOCATION

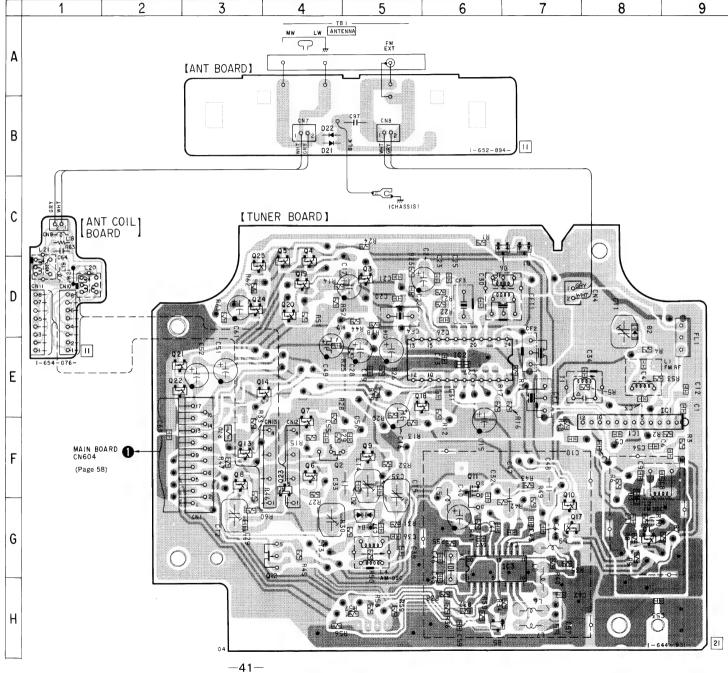


103 (1)



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### 5-6. PRINTED WIRING BOARDS—TUNER SECTION— • Refer to page 55 for Semiconductor Lead Layouts.



### Semiconductor Location

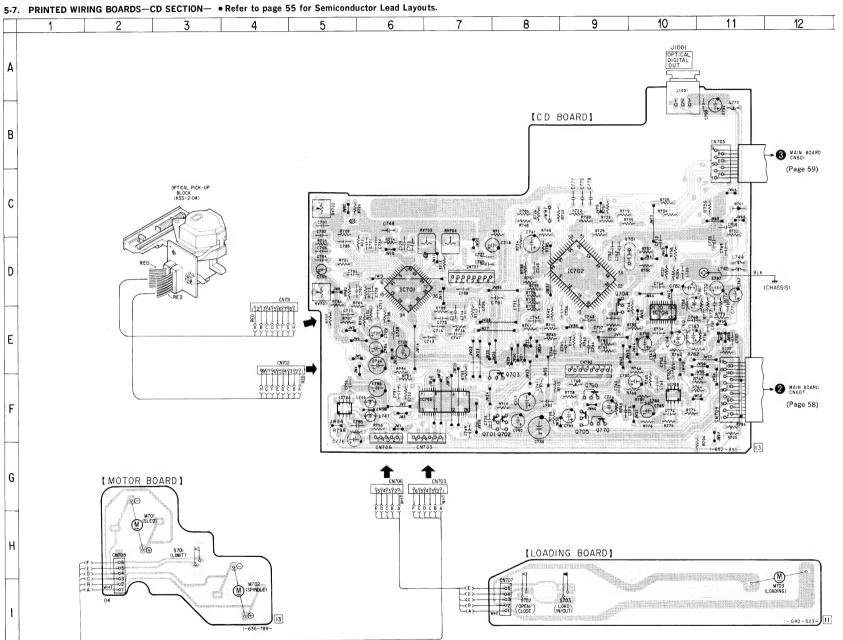
Ref. No.	Location			
D1	C-7			
D2	D-8			
D3	F-8			
D4	G-5			
D5	H-6			
D6	C-6			
D21	B-4			
D22	B-4			
IC1	E-8			
IC2	E-6			
IC3	G-7			
Q1	G-8			
Q2	F-4			
Q3	D-5			
Q4	D-4			
Q5	D-4			
Q6	F-4			
Q7	E-4			
Q8	F-3			
Q9 Q10	F-5 G-7			
Q10 Q11	G-7 F-6			
012	G-4			
Q13	F-3			
014	E-3			
017	G-7			
018	E-5			
Õ19	D-4			
Q20	D-4			
Q21	E-2			
Q22	E-2			
Q23	F-4			
Q24	D-3			
Q25	D-3			

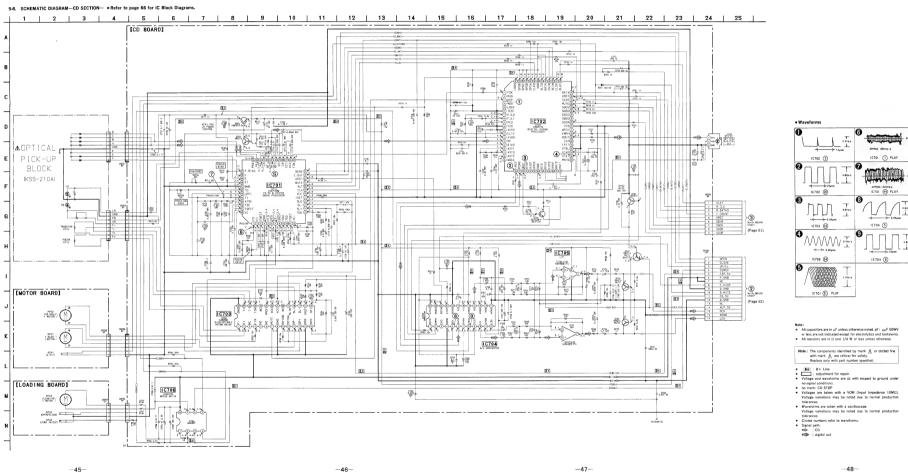
- : parts extracted from the component side.
- : Through hole.
- indicates side identified with part number.
- Pattern on the side which is seen.
- \* Pattern de reschula

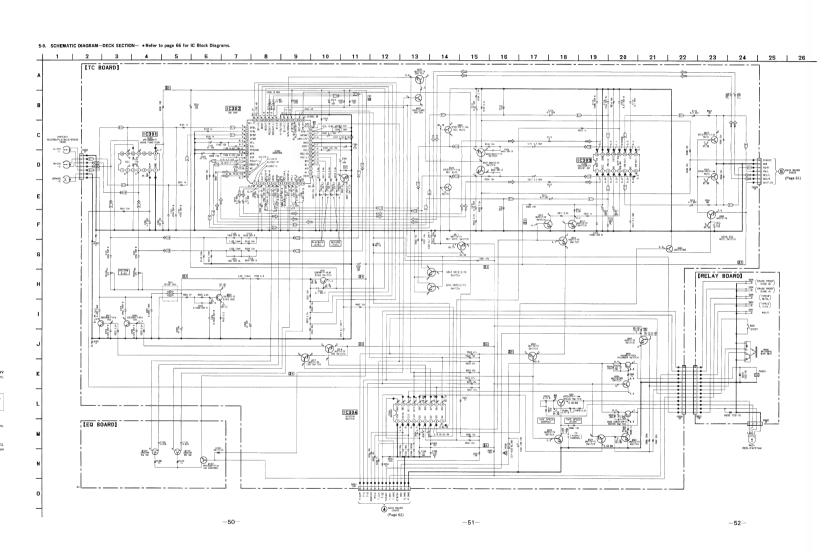
### Semiconductor Location Ref. No. Location D701 C-11 IC701 IC702 D-6 D-9 IC703 G-7 IC704 E-10 IC705 F-10 IC706 F-5 J1001 B-10 Q701 Q702 Q703 Q704 F-7 F-8 F-8 D-9 Q705 F-9 Q760 Q770 F-9 F-9

### c :: parts extracted from the component side.

Pattern on the side which is seen.







Note:

All capacitors are in μF unless otherwise noted, pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.

All resistors are in Ω and 1/4 W or less unless otherwise specified.

Note: The components identified by mark 点 or dotted line with mark 点 are critical for safety.
Replace only with part number specified.

Notices only well part referre bedieved.

(BE) 8- 16- 16

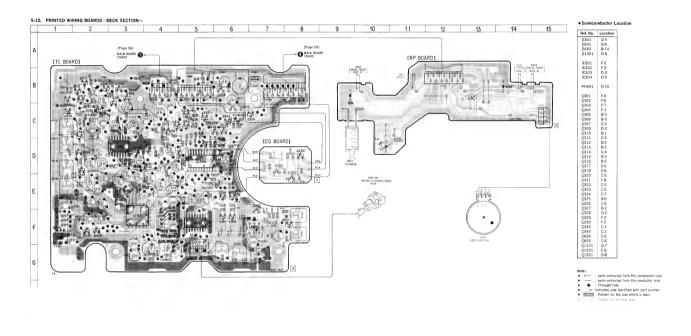
(BE) 3- 16- 16

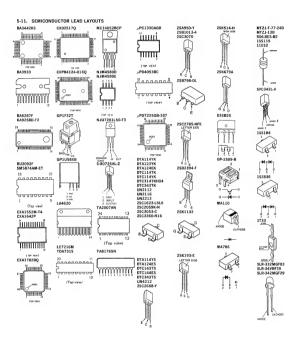
(BE) 3- 16- 16

(BE) 3- 16- 16

(CE) 4- 16

-49-





-56-

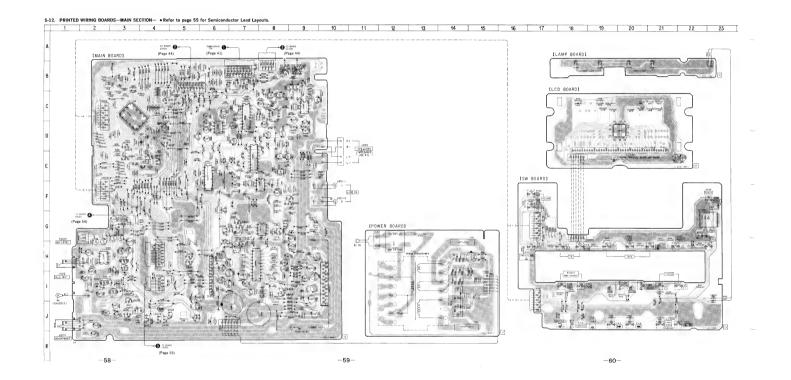
### PMC-301L

Ref. No.	Location	Ref. No.	Location
D401	J-18	IC607	F-8
D403	1-20	IC608	H-7
D404	1-19	IC609	H-2
D406	C-18	IC614	G-8
D601	8-7	IC615	I-10
D602	B-7	IC617	1-6
D603	B-3	IC618	H-3
D604	E-5	IC619	1-2
D605	B-4	IC621	1-3
D607	1-3	IC622	C-3
D608	J-5		
D609	H-14	Q616	G-3
D610	1-3	0617	C-4
D611	J-4	0618	D-4
D612	G-9	0619	F-3
D613	1-2	Q621	E-4
D614	1-3	0622	E-4
D615	B-3	0624	F-3
D616	F-6	Q625	D-3
D617	1-14	0626	H-5
D618	J-14	0627	H-5
D619	H-14	Q628	1-3
D620	H-14	0629	J-4
D621	1-14	0631	H-3
D625	J-3	0632	J-4
D626	J-6	0633	1-3
D627	1.3	0634	J-4
D801	J-9	0635	J-4
D802	1.9	0636	3-5
		Q643	C-4
IC401	D-19	0803	G-8
IC402	G-22	Q804	G-7
IC601	C-7	0805	F-9
IC502	E-6	0806	G-7
IC503	C-8	0807	F-9
IC604	D-6	Q808	G-6
IC505	C-9	0809	1-8
IC606	E-7	0810	1-8

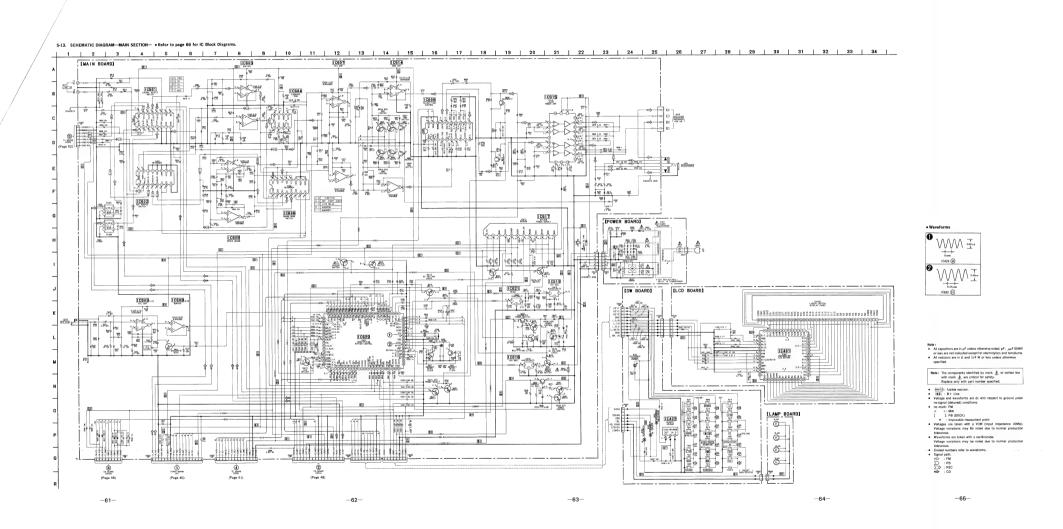
Note:

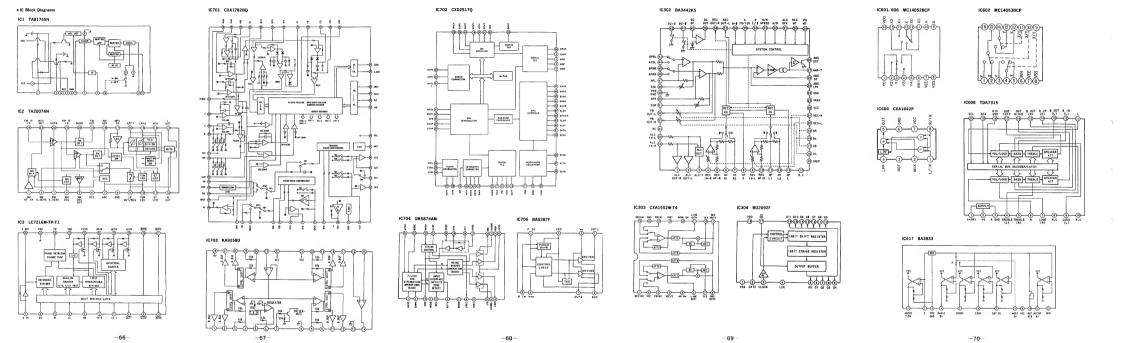
O— — parts extracted from the component side.

Pattern on the side which is seen.



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# SECTION 6 EXPLODED VIEWS

#### NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts Example :

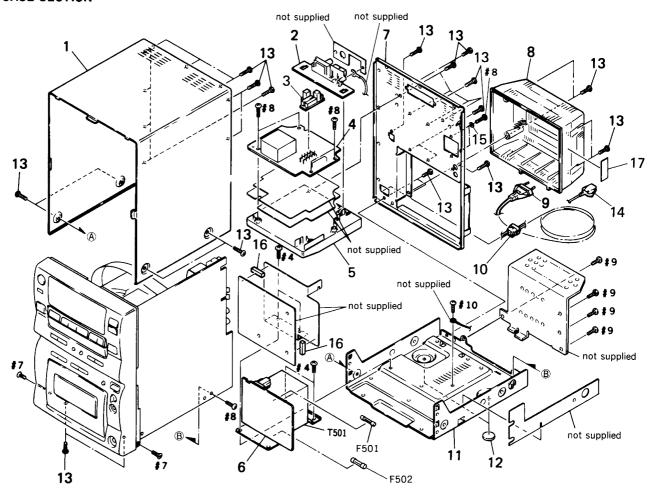
KNOB, BALANCE (WHITE)...(RED)

† †
Parts Color Cabinet's Color

 Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

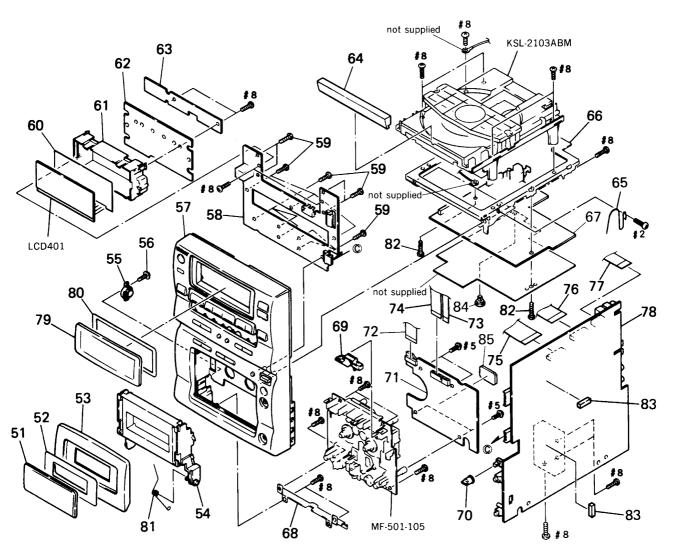
The components identified by mark  $\triangle$  or dotted line with mark.  $\triangle$  are critical for safety. Replace only with part number specified.

#### 6-1. CASE SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 1	3-914-126-01	CASE (UPPER)		* 11	3-914-131-01	CASE (LOWER)	
* 2	1-652-894-11	ANT BOARD		12	3-940-657-01	FOOT (FELT)	
* 3	1-654-076-11	ANT COIL BOARD		13	3-948-500-01	SCREW, BV (3X10) RING	
* 4	A-3269-703-A	TUNER BOARD, COMPLETE (AEP)		<u></u> 14	1-696-570-21	CORD, POWER (UK)	
* 4	A-3269-704-A	TUNER BOARD, COMPLETE (UK)		15	3-919-169-01	WASHER, INSULATING	
* 5	3-914-153-01	CHASSIS (TUNE)		16	9-911-841-XX	SPACER	
× 6	1-652-897-11	POWER BOARD		* 17	4-941-548-01	LABEL, CLASS (1)	
7	3-915-294-31	CASE (REAR) (AEP)		<b>♠</b> F501	1-532-237-00	FUSE (3, 15A)	
• 7	3-915-294-61	CASE (REAR) (UK)		∕r\F502	1-532-506-51	FUSE (6, 3A) (UK)	
8	3-914-125-01	COVER (HEAT SINK)		<u></u> F502	1-576-264-11	FUSE (6. 3A) (AEP)	
<u> </u>	1-575-651-11	CORD, POWER (AEP)		∕î\T501	1-426-872-11	TRANSFORMER, POWER (AEP)	
10	3-703-244-11	BUSHING (2104), CORD		∕r\T501		TRANSFORMER. POWER (UK)	

#### 6-2. FRONT PANEL SECTION

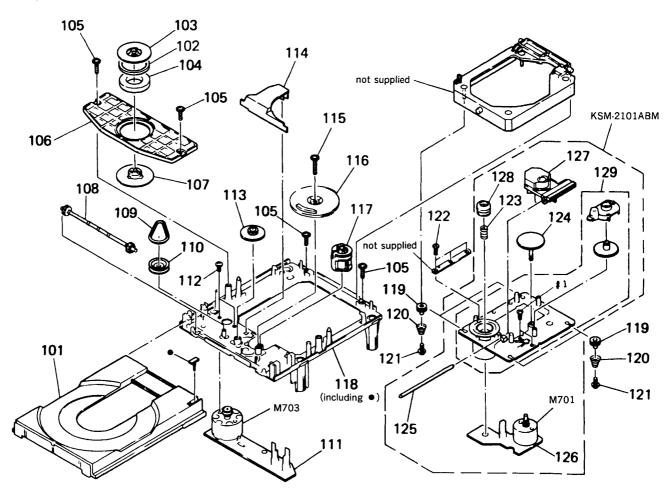


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	3-914-145-01	WINDOW (CASSETTE)		69	3-913-176-01	LEVER (EJECT)	
52	3-914-146-01	SHEET (CASSETTE), ADHESIVE		70	3-914-130-01	KNOB (VOL)	
53	3-915-284-01	LID, CASSETTE		* 71	A-3269-686-A	TC BOARD, COMPLETE (AEP)	
54	X-3368-462-1	HOLDER ASSY, CASSETTE		* 71	A-3269-688-A	TC BOARD, COMPLETE (UK)	
55	3-343-248-21	DAMPER (P), SMALL		72	1-765-436-11	WIRE, PARALLEL (FFC) (14 CORE)	
56	4-960-167-01	SCREW (3X8) (DIA. 10), +WH		73	1-765-437-11	WIRE, PARALLEL (FFC) (7 CORE)	
57	X-3369-261-1	PANEL ASSY, FRONT		74	1-765-435-11	WIRE, PARALLEL (FFC) (13 CORE)	
* 58	A-3269-674-A	SW BOARD, COMPLETE (AEP)		75	1-765-640-11	WIRE, PARALLEL (FFC) (17 CORE)	
* 58	A-3269-676-A	SW BOARD, COMPLETE (UK)		76	1-765-434-11	WIRE, PARALLEL (FFC) (17 CORE)	
59	4-931-757-41	SCREW (DIA. 2. 6X10) (IT3B)		* 77	1-766-695-11	WIRE, PARALLEL (FFC) (9 CORE)	
60	3-914-152-01	ILLUMINATOR		* 78	A-3269-667-A	MAIN BOARD, COMPLETE (AEP)	
61	3-914-151-01	HOLDER (LCD)		* 78	A-3269-669-A	MAIN BOARD, COMPLETE (UK)	
* 62	1-652-891-11	LCD BOARD		79	3-914-128-01	WINDOW (LCD)	
* 63	1-652-892-11	LAMP BOARD		80	3-914-129-01	SHEET (LCD), ADHESIVE	
64	3-915-280-01	LID (CD)		81	3-914-133-01	SPRING (CASSETTE)	
65	3-916-002-01	SPRING (LEVER)		82	3-325-679-31	SCREW, TAPPING +BV 3X14	
* 66	3-914-147-01	CHASSIS (CD)		* 83	3-941-223-01	CUSHION (RS1), RUBBER	
* 67	A-3269-662-A	CD BOARD, COMPLETE (AEP)		84	3-531-576-01	RIVET	
* 67		CD BOARD, COMPLETE (UK)		* 85	A-3276-611-A	EQ BOARD, COMPLETE	
* 68	3-913-467-01	BRACKET (MD)	1	LCD401	1-810-513-11	DISPLAY PANEL, LIQUID CRYSTAL	

#### 6-3. CD SECTION

(LOADING SECTION: KSL-2103ABM)

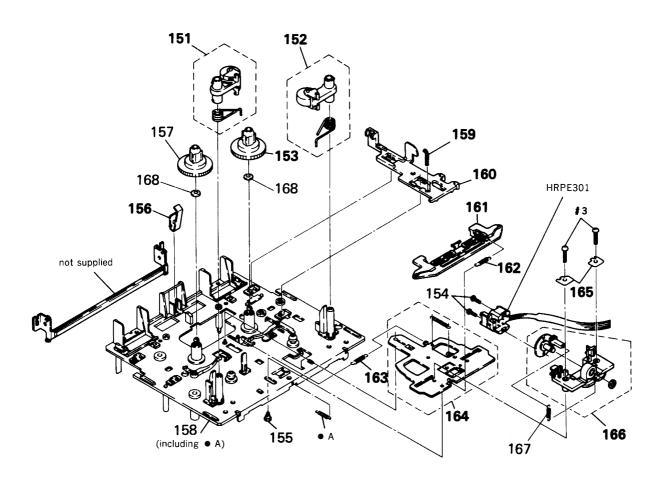
(OPTICAL PICK-UP SECTION: KSM-2101ABM)



The components identified by mark  $\triangle$  or dotted line with mark.  $\triangle$  are critical for safety. Replace only with part number specified.

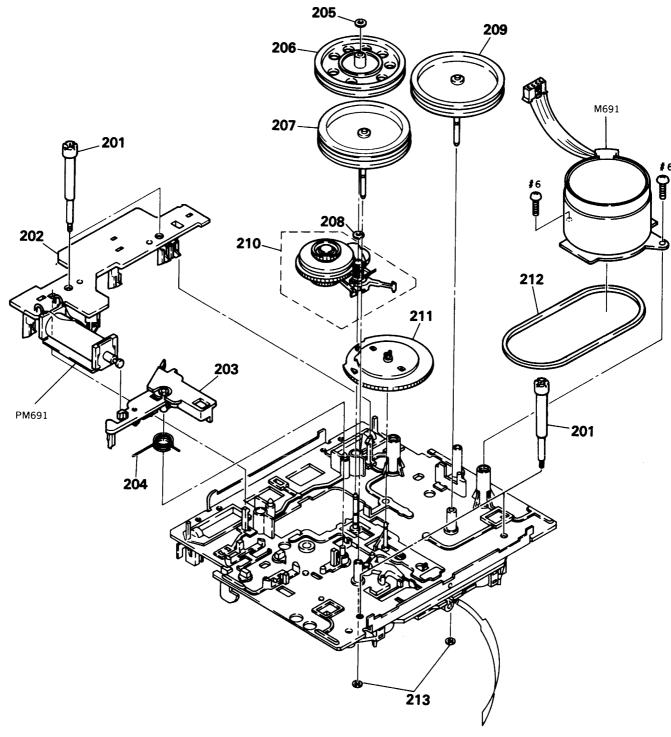
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 101	2-626-654-01	TRAY (HG)		* 117	2-625-545-04	CAM (S), CONTROL	
102	2-625-541-02	DAMPER (S)		* 118	2-625-552-06	CHASSIS (S), OUTSERT MAIN	
* 103	2-625-537-01	YOKE (S), CHUCKING		* 119	2-625-538-01	INSULATOR (S)	
104	1-452-493-21	MAGNET		120	2-625-539-01	SPRING (S)	
105	2-626-294-01	SCREW (+ PTPWH) (2.6X7)		121		SCREW, SPACER	
* 106	2-625-546-01	PLATE (S), CHUCKING		122	2-641-386-01	SCREW (2X5), TAPPING (S)	
107	2-625-548-01	PULLEY (S), CHUCKING		123	2-625-191-01	SPRING, COMPRESSION	
* 108	2-625-535-01	GEAR (S), TRAY		124	2-625-188-02	GEAR (A)	
109	3-653-387-00	BELT, LM		125	4-917-565-01	SHAFT (S), SLED	
110	2-625-536-02	PULLEY (S), LOADING		* 126	1-636-789-13	MOTOR BOARD	
* 111	1-640-523-11	LOADING BOARD		<u> 127</u>	8-848-127-11	PICK-UP, OPTICAL KSS-210A	
112	2-625-279-01	SCREW (+B2. 6X2. 5)		128	2-625-187-01	RING (LO), CENTER	
113	2-625-274-02	GEAR (S), MIDWAY		129	X-2625-133-2	CHASSIS ASSY, TT (M702 SPIND	LE)
* 114	2-625-544-01	COVER (S), GEAR		M701	X-2625-132-1	GEAR ASSY, MOTOR (SLED)	
115	3-319-501-51	SCREW (+ PTPWH) (2.6X16)		M703		MOTOR ASSY, LOADING	
* 116	2-625-547-01	GEAR (S), DRIVE					

# 6-4. MECHANISM DECK SECTION 1 (MF-501-105)



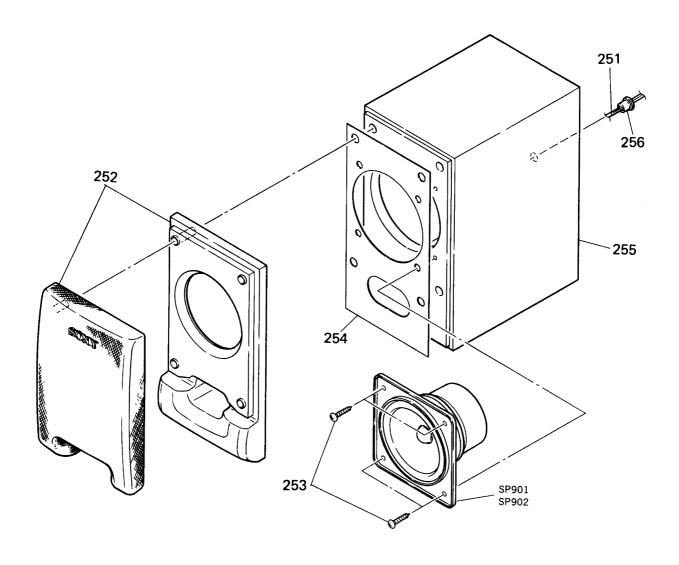
Ref. No.	Part No.	Description	Remark F	Ref. No.	Part No.	Description	Rema	ark
151	X-3364-790-1	PINCH LEVER (R) ASSY		163	3-377-673-01	SPRING, TENSION		
152	X-3364-789-1	PINCH LEVER (N) ASSY	*	164	X-3364-792-1	BASE ASSY, HEAD		
153	X-3364-791-1	GEAR (REEL) ASSY	*	165	3-384-356-01	SHIM (t=0.3)		
154	3-316-938-51	SCREW (B1. 4X6), TAPPING	4	165	3-384-356-11	SHIM (t=0.35)		
155	3-382-444-01	SCREW (STOPPER)	*	165	3-384-356-21	SHIM (t=0.4)		
156	3-384-106-01	DETENT, CASSETTE	*	165	3-384-356-31	SHIM (t=0.45)		
157	X-3368-350-1	GEAR (REEL S) ASSY	a de la companya de	165	3-384-356-41	SHIM (t=0.5)		
* 158	X-3366-586-2	CHASSIS (DIVISION) ASSY		166	X-3365-822-1	GUIDE ASSY (Q), HE	EAD	
159	3-377-670-01	SPRING, COMPRESSION		167	3-377-663-03	SPRING, TENSION		
160	3-377-709-01	LEVER (A), EJECT		168	3-906-038-01	WASHER		
161 162	3-377-700-01 3-377-666-01	SLIDER (NR) SPRING, TENSION		HRPE30	1 1-543-991-13	I HEAD, MAGNETIC (F	REC/PB/ERASE)	

# 6-5. MECHANISM DECK SÉCTION 2 (MF-501-105)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 201 * 202 203 204 205	3-377-687-01		TORSION	209 210 211 212 213	X-3364-793-1 3-377-798-01 3-377-688-01	, ,	
206 207 208		PULLEY FLYWHEEL (N) ASSY RING, RETAINING		M691 PM691		MOTOR ASSY (REEL/CAPSTAN) SOLENOID, PLUNGER	

#### 6-6. SPEAKER SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251 252 253 254	X-3369-282-1	CORD (SPEAKER) PANEL ASSY, SPEAKER SCREW (4) (3.5X14), TAPPING PACKING		256 SP901	4-870-003-00 1-504-611-11	BOX, SPEAKER CLIPPER, CORD SPEAKER (10CM) (L-CH) SPEAKER (10CM) (R-CH)	

# SECTION 7 ELECTRICAL PARTS LIST

ANT

ANT COIL

CD

#### NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
   All resistors are in ohms.
   METAL:Metal-film resistor.
   METAL OXIDE: Metal oxide-film resistor.
   F:nonflammable
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS

In each case, u: $\mu$ , for example: uA..:  $\mu$ A.. uPA..:  $\mu$ PA. uPB..:  $\mu$ PB.. uPC..:  $\mu$ PC.. uPD..:  $\mu$ PD..

• CAPACITORS uF: μF

• COILS uH: μH The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description		Ren	nark	Ref. No.	Part No.	Description		Re	emark
*	1-652-894-11	ANT BOARD				*		CD BOARD, COM	MPLETE (UK)	Valuation	
		< CAPACITOR >									
					4.073			SCREW, TAPPIN			
C97	1-162-306-11	CERAMIC	0. 01uF	30%	16V			SCREW, TAPPIN	NG +BV 3X14		
		< CONNECTOR >				Ŧ	3 314 147 01	VIDOID (VV)			
		COMMEDICAL						< CAPACITOR 3	>		
* CN7	1-564-704-11	PIN, CONNECTOR	(SMALL TYPE)	2P							
r CN8	1-564-704-11	PIN, CONNECTOR	(SMALL TYPE)	2P		C700	1-136-165-00		0. 1uF	5%	50
		( DIODE )					1-130-475~00	MYLAR	0. 0022uF	5%	50
		< DIODE >				C702-7	704 1-136-165-00	EIIM	0. 1uF	5%	50
D21	8-719-911-19	DIODE 1SS119				C705	1-131-375-00		4. 7uF	10%	10
D21	8-719-911-19					C706	1-136-159-00		0. 033uF	5%	50
DLL	0 713 311 13	DIODE 100110				0,00	1 100 100 00				
		< TERMINAL >				C707	1-136-156-00	FILM	0. 018uF	5%	50
						C708	1-162-217-31	CERAMIC	56PF	5%	5(
TB1	1-537-489-21	TERMINAL BOARD	(ANTENNA)			C709	1-126-962-11	ELECT	3. 3uF	20%	50
******	******	*****	********	*****	****	C710	1-136-495-11	FILM	0.068uF	5%	50
						C711	1-162-215-31	CERAMIC	47PF	5%	5(
*	1-654-076-11	ANT COIL BOARD						app.ura	0.004 5	4.00/	-
		******				C712	1-162-294-31		0. 001uF	10%	5(
		( dipidimon )				C713	1-136-159-00		0. 033uF	5% 5%	5( 5(
		< CAPACITOR >				C714 C715	1-136-153-00 1-136-159-00		0. 01uF 0. 033uF	5%	50
C64	1-162-280-31	CEDAMIC	82PF	10%	50V	C715	1-136-153-00		0. 03341 0. 01uF	5%	50
004	1-102-200-31	UUNAMIU	0211	10/0	301	0710	1 130 100 00	TILM	o. ordi	0.0	0.
		< CONNECTOR >				C717	1-124-589-11	ELECT	47uF	20%	16
						C718	1-126-157-11	ELECT	10uF	20%	16
* CN9	1-564-704-11	PIN, CONNECTOR	(SMALL TYPE)	2P		C721	1-136-161-00	FILM	0. 047uF	5%	50
* CN10	1-695-808-11	CONNECTOR, PC E	OARD 8P			C722	1-136-157-00	FILM	0. 022uF	5%	50
* CN11	1-695-808-11	CONNECTOR, PC E	OARD 8P			C723	1-136-165-00	FILM	0. 1uF	5%	50
		< COIL >				C724	1-124-584-00	FIFCT	100uF	20%	10
		COIL /				C724	1-162-198-31		8. 2PF	10%	50
L18	1-414-142-11	INDUCTOR	1uH			C726	1-162-294-31		0. 001uF	10%	50
L10 L19	1-414-142-11		220uH			C727	1-136-165-00		0. 1uF	5%	5(
L19 L20		COIL, MW RF	LLUUII			C728	1-164-159-11		0. 1uF	0.0	5(
L21		COIL, LW RF				0120	1 101 100 11	- 2.2.2.20			٠,
061	1 400 507 11					C729	1-124-126-00	ELECT	47uF	20%	10
		< RESISTOR >				C730	1-126-176-11		220uF	20%	10
						C731	1-162-294-31	CERAMIC	0.001uF	10%	5(
R63	1-249-416-11	CARBON	820 5%	1/4W		C732	1-136-154-00	FILM	0. 01 <b>2</b> uF	5%	50
******	******	*******	******	*****	****	C733	1-162-294-31	CERAMIC	0.001uF	10%	5

Ref. No.	Part No. Description Remark		mark	Ref. No.	Part No.	Description	Re	Remark			
C734	1-130-472-00	MYLAR	0. 0012uF	 5%	50V	C787	1-126-176-11	ELECT	220uF	20%	10V
C735	1-162-215-31	CERAMIC	47PF	5%	50V	C788	1-136-165-00	FILM	0. 1uF	5%	50V
C736	1-124-443-00	ELECT	100uF	20%	10V	C790	1-124-465-00		0. 47uF	20%	50V
C737	1-162-294-31		0. 001uF	10%	50V	C791	1-164-159-11	CERAMIC	0. 1uF		50V
C738	1-136-165-00		0. 1uF	5%	50V	C792	1-124-907-11		10uF	20%	50V
C739	1 161 484 00	CEDAMIC	U U334E		25V	C702	1 104 150 11	CEDAMIC	θ. 1Ε		EOU
C740	1-161-494-00 1-136-165-00		0. 022uF 0. 1uF	5%	50V	C793 C795	1-164-159-11 1-162-306-11		0. 1uF	3U0/	50V 16V
C740	1-124-589-11		0. 1ur 47uF	20%	16V	C795	1-162-306-11		0. 01uF	30% 30%	16V
C741			47ur 0. 047uF	20% 5%	10V 50V	C798	1-102-300-11		0. 01uF		10V
C742	1-136-161-00				50V 50V	0/90	1-124-304-00	CLCCI	100uF	20%	101
6743	1-130-473-00	MILAN	0. 0015uF	5%	90 V			< CONNECTOR >			
C744	1-162-286-31	CERAMIC	220PF	10%	50V						
C745	1-136-169-00	FILM	0. 22uF	5%	50V	* CN701	1-564-710-11	PIN, CONNECTO	R (SMALL TYPE)	8P	
C746	1-136-153-00	FILM	0. 01uF	5%	50V	* CN702	1-564-710-11	PIN, CONNECTO	R (SMALL TYPE)	8P	
C747	1-130-481-00	MYLAR	0.0068uF	5%	50V	CN703	1-564-722-11	PIN, CONNECTO	R (SMALL TYPE)	6P	
C748	1-162-294-31	CERAMIC	0. 001uF	10%	50V	* CN704	1-750-422-11	CONNECTOR, FF	C/FPC 17P		
						CN705	1-750-414-11	CONNECTOR, FF	C/FPC 9P		
C749	1-162-306-11	CERAMIC	0.01uF	30%	16V						
C750	1-126-176-11	ELECT	220uF	20%	10V	CN706	1-564-721-11	PIN, CONNECTO	R (SMALL TYPE)	5P	
C752	1-162-206-31	CERAMIC	20PF	5%	50V						
C753	1-162-206-31	CERAMIC	20PF	5%	50V			< DIODE >			
C754	1-164-159-11	CERAMIC	0. 1uF		50V						
						D701	8-719-911-19	DIODE 1SS11	9		
C755	1-136-173-00	FILM	0. 47uF	5%	50V						
C756	1-162-306-11	CERAMIC	0. 01uF	30%	16V			< IC >			
C757	1-164-159-11	CERAMIC	0. 1uF		50V						
C758	1-162-294-31		0. 001uF	10%	50V		8-752-068-52		•		
C759	1-162-199-31	CERAMIC	10PF	5%	50V		8-752-361-92				
						IC703	8-759-250-33	IC KA9258D-	T2		
C760	1-162-288-31	CERAMIC	330PF	10%	50V	IC704	8-759-196-57	IC SM5874AM	-ET		
C761	1-162-217-31	CERAMIC	56PF	5%	50V	IC705	8-759-711-82	IC NJM4580E			
C762	1-162-217-31	CERAMIC	56PF	5%	50V						
C763	1-130-478-00	MYLAR	0.0039uF	5%	50V	IC706	8-759-040-83	IC BA6287F			
C764	1-126-163-11	ELECT	4. 7uF	20%	50V	J1001	8-749-921-12	IC GP1F32T	(OPTICAL DIGIT	I'AL OUT)	)
C765	1-164-159-11	CERAMIC	0. 1uF		50V			< COIL >			
C766	1-164-159-11	CERAMIC	0. 1uF		50V						
C767	1-126-176-11	ELECT	220uF	20%	10V	L741	1-408-405-00	INDUCTOR	4. 7uH		
C768	1-136-165-00		0. 1uF	5%	50V	L743-7	745				
C769	1-162-294-31		0. 001uF	10%	50V		1-408-405-00	INDUCTOR	4. 7uH		
						L746	1-414-187-11	INDUCTOR	47uH		
C770	1-162-288-31	CERAMIC	330PF	10%	50V	L747	1-414-187-11		47uH		
C771	1-162-217-31		56PF	5%	50V	L760	1-410-509-11		10uH		
C772	1-162-217-31		56PF	5%	50V	2.00	1 110 000 11	1.12001011	104		
C773	1-130-478-00		0. 0039uF	5%	50V	L770	1-410-509-11	INDUCTOR	10uH		
C774	1-126-163-11		4. 7uF	20%	50V	B110	1 110 000 11	INDOOTOR	10411		
								< TRANSISTOR	>		
C775	1-162-191-31	CERAMIC	2. 2PF	10%	50V						
C776	1-124-126-00	ELECT	47uF	20%	10V	Q701	8-729-801-84	TRANSISTOR	2SB1013-4		
C777-7	79					Q702	8-729-900-89	TRANSISTOR	DTC144ES		
	1-162-219-31	CERAMIC	68PF	5%	50V	Q703	8-729-900-74	TRANSISTOR	DTC143TS		
C780	1-124-126-00	ELECT	47uF	20%	10V	Q704	8-729-266-83	TRANSISTOR	2SC2668-Y		
C781-7	84					Q705	8-729-902-80	TRANSISTOR	DTA114YS		
	1-126-160-11	ELECT	1uF	20%	50V						
						Q760	8-729-900-74	TRANSISTOR	DTC143TS		
C785	1-126-176-11	ELECT	220uF	20%	10V	Q770	8-729-900-74	TRANSISTOR	DTC143TS		
C786	1-162-306-11	CERAMIC	0. 01uF	30%	16V						

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description	n 		Remark
		< RESISTOR >				R760	1-249-429-11	CARBON	10K	5%	1/4W
		( REDICION )				R761	1-249-429-11		10K	5%	1/4W
R700	1-249-429-11	CARRON	10K	5%	1/4W	R762	1-247-870-11	CARBON	43K	5%	1/4W
R700	1-247-887-00			5%	1/4W	R763	1-247-870-11		43K	5%	1/4W
R701	1-247-896-11		510K		1/4W	R764	1-249-434-11		27K	5%	1/4W
				5%	1/4W	1,701	1 210 101 11				
R703	1-249-441-11			5%	1/4W	R765	1-249-434-11	CARBON	27K	5%	1/4W
R704	1-249-441-11	CARDON	1001/	JA	1/411	R766	1-249-414-11		560	5%	1/4W
	4 040 405 44	O L DDON	4717	ΞO	1 /450	R767	1-249-423-11			5%	1/4W
R705	1-249-437-11		47K	5%	1/4W	R768	1-249-423-11		15K	5%	1/4W
R706	1-249-441-11			5%	1/4W	1			15K	5%	1/4W
R707	1-249-432-11		18K	5%	1/4W	R769	1-249-417-11	CARDON	IK	370	1/ 111
R708	1-247-891-00			5%	1/4W	DEEC	1 040 400 11	CADDON	101	E0v	1/4W
R709	1-247-862-11	CARBON	20K	5%	1/4W	R770	1-249-429-11		10K	5% 5%	
						R771	1-249-429-11		10K	5%	1/4W
R710	1-249-393-11	CARBON	10	5%	1/4W	R772	1-247-870-11		43K	5% 5%	1/4W
R711	1-249-417-11	CARBON	1K	5%	1/4W	R773	1-247-870-11		43K	5%	1/4W
R713	1-249-433-11	CARBON	22K	5%	1/4W	R774	1-249-434-11	CARBON	27K	5%	1/4W
R714	1-247-883-00	CARBON	150K	5%	1/4W						
R715	1-247-806-11	CARBON	91	5%	1/4W	R775	1-249-434-11		27K	5%	1/4W
						R776	1-249-414-11	CARBON	560	5%	1/4W
R716	1-249-429-11	CARBON	10K	5%	1/4W	R777	1-249-423-11	CARBON	3. 3K		1/4W
R717	1-249-434-11	CARBON	27K	5%	1/4W	R778	1-249-417-11	CARBON	1K	5%	1/4W
R718	1-247-899-11	CARBON	680K	5%	1/4W	R779	1-249-417-11	CARBON	1K	5%	1/4W
R719	1-249-417-11		1K	5%	1/4W						
R720	1-249-441-11		100K	5%	1/4W	R781	1-249-417-11	CARBON	1K	5%	1/4W
20						R782	1-249-417-11	CARBON	1K	5%	1/4W
R721	1-247-895-00	CARBON	470K	5%	1/4W	R783	1-249-429-11	CARBON	10K	5%	1/4W
R722-7		ornibon.	1.01.		1	R784	1-249-417-11	CARBON	1K	5%	1/4W
III LL I	1-249-417-11	CARRON	1K	5%	1/4W	R785	1-249-429-11	CARBON	10K	5%	1/4W
R730	1-249-435-11		33K	5%	1/4W	1					
R730	1-249-433-11		22K	5%	1/4W	R786	1-249-417-11	CARBON	1K	- 5%	1/4W
	1-249-433 11		10K	5%	1/4W	R789	1-249-431-11		15K	5%	1/4W
R732	1-249-429-11	CARDON	1011	J /0	1/411	R790	1-249-433-11		22K	5%	1/4W
D700	1 040 405 11	CADDON	33K	E0/	1/4W	R791	1-249-417-11		1K	5%	1/4W
R733	1-249-435-11			5% =«	1/4W	R793	1-249-425-11		4. 7K		1/4W
R734	1-249-437-11		47K	5% =~		11733	1 243 423 11	. Offitbon	1. /11	0,0	1/ 1"
R736	1-249-430-11		12K	5%	1/4W	D704	1-249-425-11	CADRON	4. 7K	5%	1/4W
R737	1-249-430-11		12K	5%	1/4W	R794 R795	1-249-441-11		100K		1/4W
R738	1-249-429-11	CARBON	10K	5%	1/4W		1-249-441-11		100K		1/4W
			411	F0:	4 /491	R796	1-249-393-11		100%	5%	1/4W
R739	1-249-417-11		1K	5%	1/4W	R798				5%	1/4W
R740	1-247-881-00		120K		1/4W	R799	1-249-417-11	UARDUN	1K	JA	1/411
R741	1-249-423-11		3. 3K		1/4W			/ WIDIARI	DECLOTOD >		
R742	1-249-429-11		10K	5%	1/4W			< VARIABLE	RESISTOR >	•	
R743	1-247-903-00	CARBON	1M	5%	1/4W				## PP 011 0011		
							1-230-497-11				
R744	1-247-887-00	CARBON	220K	5%	1/4W	1	1-230-497-11				
R745	1-247-856-00	CARBON	11K	5%	1/4W		1-241-765-11				
R746	1-249-417-11	L CARBON	1K	5%	1/4W	RV704	1-238-019-11	l RES, ADJ,	CARBON 47K		
R747	1-249-437-13	L CARBON	47K	5%	1/4W						
R748-	750							< VIBRATOR	<b>?</b> >		
	1-249-417-11	1 CARBON	1K	5%	1/4W						
	1 210 11. 1.				•	X701	1-567-908-13	1 VIBRATOR,	CRYSTAL (16	i. 934	4MHz)
R751-	753						******				
11.21_	755 1-249-429-11	1 CARRON	10K	5%	1/4W						
D751	1-249-429-1		16K	5%	1/4W						
R754			220	5%	1/4W						
R755	1-249-409-1	LONDON	220	J./0	1/ 411						
R756-		1 CADDOM	1 V	E0/	1/4W						
	1-249-417-1	I CANDUN	1K	5%	1/411	I					

# EQ LAMP LCD LOADING MAIN

A - 2276 - 611 - A EQ 80ABB. COMPLETE	Ref. No.	Part No.	Description		Ren	nark	Ref. No.	Part No.	Description		Re	mark
CAPACITOR   CAPA	*	A-3276-611-A	• .						< DIODE >			
C1001   1-163-024-00 CERMIC CHIP   0.018uf   10x   50V   C401   8-759-153-90   C   0P3722568-387							D406	8-719-911-19	DIODE 1SS119			
Control   Cont									< IC >			
D1301 8-719-404-46 D100E MA110							IC401	8-759-153-90	IC uPD7225GB-	-3B7		
Caracity			< DIODE >						< COIT >			
C1101   8-729-012-83 TRANSISTOR   25K679A   C1201   8-729-012-83 TRANSISTOR   25K679A   C1201   8-729-010 63 TRANSISTOR   25K679A   C1201   25K679A	D1301	8-719-404-46	DIODE MA110				Լ401	1-410-509-11	INDUCTOR	10uH		
Carrier   Carr			< TRANSISTOR >						< LIQUID CRYSTA	AL DISPLAY >		
RADIO   1-247-891-05 TRANSISTOR   DTA124EK	-						LCD401	1-810-513-11	DISPLAY PANEL,	LIQUID CRYST	`AL	
R1101   1-216-049-00 METAL CHIP   1K   5%   1/10W   R1201   1-216-049-00 METAL CHIP   1K   5%   1/10W   R403   1-249-441-11   CARBON   100K   5%   1/4W   R403   1-249-441-11   CARBON   100K   5%   1/4W   R403   1-249-441-11   CARBON   100K   5%   1/4W   R403   1-249-429-11   CARBON   100K   10									< RESISTOR >			
R1101 1-216-049-00 METAL CHIP 1K 5% 1/10W			< RESISTOR >				R401	1-247-881-00	CARBON	120K 5%	1/4W	
R1201   1-216-049-00 METAL CHIP	D1101	1 910 040 00	METAL CHID	11/ 50/	1 /100							
***												
* 1-652-892-11 LAMP BOARD						***						
1-249-417-11 CABBON							11100	1 210 120 11	ornico.	1011 070	1, 1,,	
R418   1-249-429-11 CARBON   10 K   5%   1/4W	*	1-652-892-11	LAMP BOARD				R408-4	11				
- CN403			*****					1-249-417-11	CARBON	1K 5%	1/4W	
* CN403											•	
* CN403 1-564-704-11 PIN, CONNECTOR (SMALL TYPE) 2P  CPILOT LAMP >  ***CN707 1-564-721-11 PIN, CONNECTOR (SMALL TYPE) 5P  ***PL401-404**  1-518-688-11 LAMP, PILOT**  ****CN707 1-564-721-11 PIN, CONNECTOR (SMALL TYPE) 5P  ***CN707 1-692-667-11 SWITCH, LEAF (OPEN/CLOSE)  ***A -3269-667-A MAIN BOARD, COMPLETE (AEP)  ***A -3269-667-A MAIN BOARD, COMPLETE (AEP)  ***A -3269-667-A MAIN BOARD, COMPLETE (AEP)  ***CN707 1-692-667-11 SWITCH, LEAF (IOAD IN/OUT)  ***CN707 1-692-667-11 SWITCH, LEAF (I		7-685-647-79	SCREW, TAPPING	+BV 3X10		į	******	*******	********	*********	******	*****
CN707   1-564-721-11 PIN, CONNECTOR   SMALL TYPE   5P			< CONNECTOR >				*	1-640-523-11				
PL401-404	* CN403	1-564-704-11	PIN, CONNECTOR	(SMALL TYPE)	2P							
PL401-404			/ DILOT LIMB						< CONNECTOR >			
PL401-404			< PILOT LAMP >				CNZOZ	1_564_701_11	DIN CONNECTOR	(CMALL TVDE)	ED.	
**************************************	PL401-	404					CNTUT	1-304-721-11	rin, connector	(SMALL TIPE)	ЭΡ	
**************************************		1-518-688-11	LAMP, PILOT						< SWITCH >			
** 1-652-891-11 LCD BOARD	******	*****	*******	*****	******	****						
* A-3269-669-A MAIN BOARD, COMPLETE (UK)  ****************  ***************  ****	*	1-652-891-11					S703	1-692-667-11	SWITCH, LEAF (L	OAD IN/OUT)	*****	****
* A-3269-669-A MAIN BOARD, COMPLETE (UK)  ****************  ***************  ****												
CAPACITOR   CAPA												
C401 1-124-589-11 ELECT 47uF 20% 16V C402 1-126-163-11 ELECT 4. 7uF 20% 50V C403 1-164-159-11 CERAMIC 0. 1uF 50V C404 1-164-159-11 CERAMIC 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.		3-914-132-01	ILLUMINATUR				*	A-3269-669-A	,	, ,		
C401 1-124-589-11 ELECT 47uF 20% 16V C402 1-126-163-11 ELECT 4. 7uF 20% 50V C403 1-164-159-11 CERAMIC 0. 1uF 50V C404 1-164-159-11 CERAMIC 0. 1uF 50V C406 1-162-306-11 CERAMIC 0. 0. 01uF 30% 16V C515 1-125-507-11 DOUBLE LAYERS 0. 22F 5. 5V C529 1-162-294-31 CERAMIC 0. 001uF 10% 50V C531-538 1-162-294-31 CERAMIC 0. 001uF 10% 50V C541 1-162-294-31 CERAMIC 0. 001uF 10%			< CAPACITOR >									
C402 1-126-163-11 ELECT 4. 7uF 20% 50V C403 1-164-159-11 CERAMIC 0. 1uF 50V C404 1-164-159-11 CERAMIC 0. 1uF 50V C406 1-162-306-11 CERAMIC 0. 0. 01uF 30% 16V C515 1-125-507-11 DOUBLE LAYERS 0. 22F 5. 5V C529 1-162-294-31 CERAMIC 0. 001uF 10% 50V C531-538  C407 1-162-306-11 CERAMIC 0. 01uF 30% 16V C531-538  C408 C409 1-162-294-31 CERAMIC 0. 001uF 10% 50V C531-538  C540 1-162-294-31 CERAMIC 0. 001uF 10% 50V C541 1-162-294-31 CERAMIC 0. 001uF 10% 50V C54								7-685-647-79	SCREW, TAPPING	+BV 3X10		
C403 1-164-159-11 CERAMIC 0. 1uF 50V C404 1-164-159-11 CERAMIC 0. 1uF 50V C406 1-162-306-11 CERAMIC 0. 01uF 30% 16V C407 1-162-306-11 CERAMIC 0. 01uF 30% 16V C408 1-162-306-11 CERAMIC 0. 01uF 30% 16V C409 1-162-294-31 CERAMIC 0. 001uF 10% 50V C531-538						1						
C404 1-164-159-11 CERAMIC 0. 1uf 50V C514 1-124-916-11 ELECT 22uF 20% 63V C406 1-162-306-11 CERAMIC 0. 01uf 30% 16V C515 1-125-507-11 DOUBLE LAYERS 0. 22F 5. 5V C529 1-162-294-31 CERAMIC 0. 001uf 10% 50V C531-538 1-162-294-31 CERAMIC 0. 001uf 10% 50V C541 1-162-294-31 CERAMIC 0. 001					20%				< CAPACITOR >			
C406 1-162-306-11 CERAMIC 0.01uF 30% 16V C515 1-125-507-11 DOUBLE LAYERS 0.22F 5.5V C529 1-162-294-31 CERAMIC 0.001uF 10% 50V C531-538 1-162-294-31 CERAMIC 0.001uF 10% 50V C541 1-162-294-31 CERAMIC							CE14	1_19/1_016 11	FLECT	22.1F	200v	630
C529 1-162-294-31 CERAMIC 0.001uF 10% 50V C531-538					30%						<b>ፈ</b> ሀዀ	
C407 1-162-306-11 CERAMIC 0.01uF 30% 16V C531-538  1-162-294-31 CERAMIC 0.001uF 10% 50V C541 1-162-294-31 CERAMIC 0.001uF 10% 50V	3.00	J 550 II		J. 04ML	m						10%	
<pre>&lt; CONNECTOR &gt;</pre>	C407	1-162-306-11	CERAMIC	0. 01uF	30%	16V					•	
								1-162-294-31	CERAMIC	0.001uF	10%	50V
CN406 1-766-248-11 CONNECTOR, BOARD TO BOARD 6P C542 1-162-286-31 CERAMIC 220PF 10% 50V			< CONNECTOR >				C541	1-162-294-31	CERAMIC	0. 001uF	10%	50V
	CN406	1-766-248-11	CONNECTOR, BOAR	D TO BOARD 61	P		C542	1-162-286-31	CERAMIC	220PF	10%	50V

Ref. No.	Part No.	Description		Re	mark	Ref. No.	Part No.	Description		Rer	nark
C543-5	545					C673	1-124-907-11	ELECT	10uF	20%	50V
0010	1-162-294-31	CERAMIC	0.001uF	10%	50V	C674	1-124-907-11	ELECT	10uF	20%	50V
C550	1-162-294-31		0. 001uF	10%	50V	C675	1-162-306-11	CERAMIC	0. 01uF	30%	16V
C552	1-164-159-11		0. 1uF	20.0	50V	C676	1-124-910-11	ELECT	47uF	20%	50V
		CLIMITO	0.141		001	C677	1-162-306-11	CERAMIC	0. 01uF	30%	16V
C553-	1-162-294-31	CEDAMIC	0. 001uF	10%	50V	••••	•				
0004			47uF	20%	10V	C678	1-126-101-11	ELECT	100uF	20%	16V
C601	1-124-126-00	ELECT	4741	2070	101	C679	1-124-907-11		10uF	20%	50V
						C680	1-124-925-11		2. 2uF	20%	100V
C602-			40 F	000	COL	C681	1-162-306-11		0. 01uF	30%	16V
	1-124-907-11		10uF	20%	50V				10uF	20%	50V
C605	1-124-903-11		1uF	20%	50V	C682	1-124-907-11	ELECI	Tour	2040	301
C606	1-124-903-11	ELECT	1uF	20%	50V			DI DOM	100F	200	10V
C607	1-124-463-00	ELECT	0. 1uF	20%	50V	C683	1-124-443-00		100uF	20%	
C608	1-124-907-11	ELECT	10uF	20%	50V	C684	1-162-306-11		0. 01uF	30%	16V
						C688	1-102-959-00		22PF	5%	50V
C609	1-124-907-11	ELECT	10uF	20%	50V	C689	1-102-959-00		22PF	5%	50V
C610	1-124-903-11		1uF	20%	50V	C690	1-162-294-31	CERAMIC	0.001uF	10%	50V
C611	1-124-927-11		4. 7uF	20%	100V						
C612	1-124-604-00		330uF	20%	10V	C691	1-102-965-00	CERAMIC	39PF	5%	50V
C613	1-124-907-11		10uF	20%	50V	C692	1-102-965-00	CERAMIC	39PF	5%	50V
0013	1 124 307 11	LLEUI	1001	20.0		C693	1-102-966-00	CERAMIC	43PF	5%	50V
0014	1-126-101-11	CI CCT	100uF	20%	16V	C694	1-102-966-00		43PF	5%	50V
C614			47uF	20%	50V	C695	1-162-306-11		0. 01uF	30%	16V
C615	1-124-910-11			20%	50V	0033	1 102 000 1	OBIGENIO	3.02		
C616	1-128-131-11		22uF			C697	1-124-771-0	FIFCT	6800uF	20%	25V
C617	1-162-306-11		0. 01uF	30%	16V	C698	1-124-771-00		4700uF	20%	25V
C618	1-124-122-11	ELECT	100uF	20%	50V		1-124-304-1		10uF	20%	50V
					4001	C801			10uF	20%	50V
C619	1-124-927-13		4. 7uF	20%	100V	C802	1-124-907-1			20%	100V
C620	1-162-306-13		0.01uF	30%	16V	C803	1-124-927-1	I ELECI	4. 7uF	20%	1004
C621	1-124-902-00	ELECT	0. 47uF	20%	50V	ļ				0.00	1000
C622	1-162-306-13	1 CERAMIC	0. 01uF	30%	16V	C804	1-124-927-1		4. 7uF	20%	100V
C623	1-124-126-0	ELECT	47uF	20%	10V	C805	1-130-494-1		0. 082uF	5%	50V
						C806	1-130-494-1	1 MYLAR	0. 082uF	5%	50V
C624	1-124-126-0	DELECT	47uF	20%	10V	C807	1-162-282-3	1 CERAMIC	100PF	10%	50V
C625	1-124-927-1		4. 7uF	20%	100V	C808	1-162-282-3	1 CERAMIC	100PF	10%	50V
C626	1-124-927-1		4. 7uF	20%	100V						
C627	1-162-288-3		330PF	10%	50V	C809	1-162-215-3	1 CERAMIC	47PF	5%	50V
			0. 1uF	10/0	50V	C810	1-162-215-3		47PF	5%	50V
C628	1-164-159-1	1 CENAMIC	u. Tui		301	C811-					
2000	1 101 100 0	O PIPOT	47uF	20%	10V		1-130-495-0	O MYLAR	0. 1uF	5%	50V
C629	1-124-126-0			20%	50V	C815	1-130-476-0		0. 0027uF	5%	50V
C630	1-126-163-1		4. 7uF		50V	C816	1-130-476-0		0. 0027uF	5%	50V
C631	1-126-163-1		4. 7uF	20%	50V	0010	1 100 470 0	O MILDING	3. 332		
C640			0. 1uF	5%		C017	1-136-169-0	O ETIM	0. 22uF	5%	50V
C651	1-124-126-0	0 ELECT	47uF	20%	10V	C817			0. 22uF	5%	50V
					4.011	C818	1-136-169-0		0. 22di 0. 1uF	5%	50V
C652	1-162-306-1	1 CERAMIC	0. 01uF	30%	16V	C819	1-130-495-0				50V
C655	1-162-282-3	1 CERAMIC	100PF	10%	50V	C820	1-130-495-0		0. 1uF	5%	
C656	1-124-907-1	1 ELECT	10uF	20%	50V	C821	1-124-925-1	1 ELECT	2. 2uF	20%	100V
C661	1-124-927-1	1 ELECT	4. 7uF	20%	100V					0.00	1001
C664	1-124-443-0	O ELECT	100uF	20%	10V	C822	1-124-925-1		2. 2uF	20%	100V
						C823	1-130-475-0	0 MYLAR	0. 0022uF	5%	50V
C665	1-124-443-0	O ELECT	100uF	20%	10V	C824	1-130-475-0	O MYLAR	0. 0022uF	5%	50V
	-668					C825	1-126-101-1	1 ELECT	100uF	20%	16V
0000	1-124-126-0	NO FLECT	47uF	20%	10V	C826	1-126-101-1	1 ELECT	100uF	20%	16V
reen			0. 01uF	30%	16V						
C669			470uF	20%	10V	C827	1-124-927-1	1 ELECT	4. 7uF	20%	100V
C670			470ur 47uF	20%		C828			4. 7uF	20%	100V
C671	1-124-126-0	O ELECT	4/46	2U/n	101	, 0020	1 101 001				

Ref. No.	do. Part No. Description		Re	Remark Ref. No.		Part No.	Description			Remark	
C829-	332					D607	8-719-911-19	DIODE	1SS119		
	1-126-101-11	ELECT	100uF	20%	16V	D608	8-719-109-97		RD6, 8ES-B2		
C833-8	336					D610	8-719-911-19	DIODE	1SS119		
	1-124-927-11	ELECT	4. 7uF	20%	100V	D611	8-719-921-88	DIODE	MTZJ-13B		
C837	1-136-165-00	FILM	0. 1uF	5%	50V	D612	8-719-911-19	DIODE	1SS119		
C838	1-136-165-00	FILM	0. 1uF	5%	50V						
C839-8	344					D613	8-719-911-19	DIODE	1SS119		
	1-124-927-11	ELECT	4. 7uF	20%	100V	D614	8-719-911-19	DIODE	1SS119		
						D615	8-719-911-19	DIODE	1SS119		
C845	1-130-495-00	MYLAR	0. 1uF	5%	50V	D616	8-719-911-19		1SS119		
C846	1-130-495-00	MYLAR	0. 1uF	5%	50V	D625	8-719-924-32		MT2J-T-77-24D		
C851-8	354										
	1-130-494-11	MYLAR	0. 082uF	5%	50V	D626	8-719-911-19	DIODE	1SS119		
C855	1-124-903-11	ELECT	1uF	20%	50V	D627	8-719-911-19		1SS119		
C856	1-124-903-11		1uF	20%	50V	D801	8-719-911-19		1SS119		
						D802	8-719-911-19		1SS119		
C857	1-124-790-11	ELECT	0. 47uF	20%	100V	2002	0 110 011 10	DIODE	100110		
C858	1-124-790-11		0. 47uF	20%	100V			< LPF	>		
C859	1-162-282-31		100PF	10%	50V			. 2.1			
C860	1-162-282-31		100PF	10%	50V	FL801	1-239-503-11	FILTER.	LOW PASS		
C861	1-130-495-00		0. 1uF	5%	50V		1-239-503-11				
C862	1-130-495-00	MYLAR	0. 1uF	5%	50V			< IC >			
C869	1-136-169-00		0. 22uF	5%	50V						
C870	1-136-169-00	FILM	0. 22uF	5%	50V	IC601	8-759-000-48	IC MO	C14052BCP		
C871	1-124-916-11		22uF	20%	63V		8-759-140-53		PD4053BC		
C872	1-124-916-11	ELECT	22uF	20%	63V		8-759-711-35		JM4580D		
				-			8-752-057-50		KA1642P		
C873	1-124-126-00	ELECT	47uF	20%	10V		8-759-711-35		JM4580D		
C874	1-124-126-00	ELECT	47uF	20%	10V						
C875	1-136-169-00	FILM	0. 22uF	5%	50V	IC606	8-759-000-48	IC MO	C14052BCP		
C876	1-136-169-00	FILM	0. 22uF	5%	50V		8-759-711-35		JM4580D		
C877	1-162-302-11	CERAMIC	0. 0022uf	30%	16V		8-759-264-31		DA7315		
							8-759-711-35		JM4580D		
C878	1-162-302-11	CERAMIC	0. 0022uF	30%	16V		8-759-711-35		JM4580D		
C885	1-162-282-31		100PF	10%	50V						
C886	1-162-282-31	CERAMIC	100PF	10%	50V	IC615	8-759-822-51	IC LA	A4620		
							8-759-080-77		\3933		
		< CONNECTOR >					8-759-173-39		JU7201L50-T3		
							8-759-173-39		JU7201L50-T3		
* CN601	1-563-586-11	CONNECTOR, FLEX	IBLE 9P				8-759-196-15		-80735AL-Z		
		CONNECTOR, FFC/							20100112		
		CONNECTOR, FFC/				10622	8-752-859-74	IC CX	(P84124-0160		
		CONNECTOR, FLEX					0 102 000 11		. 01121 0100		
		CONNECTOR, FFC/						< JACK	>		
CN608	1-568-321-11	SOCKET, CONNECT	OR 10P			J60 <b>1</b>	1-764-593-21	JACK 2F	(LINE IN)		
		SOCKET, CONNECT				J602	1-568-267-21				
		PIN, CONNECTOR		iP		J603			AL BOARD (CHECKE	R PIN)	(SPEAKERS)
		.,	,			J604	1-568-267-11		· ·	,	(DI DIMBINO)
		< DIODE >									
D601	8-719-911-19	DIODE 1SS119						< COIL	7		
D602	8-719-911-19	DIODE 1SS119				L605	1-410-521-11	INDUCTO	OR 100uH		
D603	8-719-911-19	DIODE 1SS119				L606	1-410-521-11	INDUCTO	OR 100uH		
D604	8-719-911-19	DIODE 1SS119									
D605	8-719-911-19	DIODE 1SS119									

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Re	mark
		< IC LINK >				R534 R535-5	1-249-429-11 537	CARBON	10K	5%	1/4W	
⚠PS601	1-532-685-00	LINK, IC ICP	-N20 (0.8	BA)		R538-5	1-249-417-11	CARBON	1K	5%	1/4W	
		< TRANSISTOR	>				1-247-807-11		100	5%	1/4W	
2242						R541	1-249-425-11		4. 7K		1/4W	
Q616	8-729-905-50		DTC343TS			R542	1-249-425-11	CARBON	4. 7K	5%	1/4W	
Q617	8-729-900-63		DTA124ES									
Q618	8-729-900-63		DTA124ES	3		R543	1-249-417-11	CARBON	1K	5%	1/4W	
Q619	8-729-900-63	TRANSISTOR	DTA124ES	3	•	R544	1-249-429-11	CARBON	10K	5%	1/4W	
Q621	8-729-266-83	TRANSISTOR	2SC2668-	-Y		R545	1-249-429-11	CARBON	10K	5%	1/4W	
						R546	1-249-421-11	CARBON	2. 2K	5%	1/4W	
Q622	8-729-266-83	TRANSISTOR	2SC2668-	Y		R547	1-249-421-11	CARBON	2. 2K	5%	1/4W	
Q624	8-729-422-73	TRANSISTOR	UN4212							•	-,	
Q625	8-729-422-73		UN4212			R548-5	61					
Q626	8-729-422-73		UN4212				1-249-417-11	CARRON	1K	5%	1/4W	
Q627	8-729-900-63		DTA124ES	Į.		R563	1-249-425-11		4. 7K		1/4W	
Q021	0 123 300 03	TRINGTOTOR	DIMILATE	,		R564	1-249-425-11		4. 7K		1/4W	
Q628	8-729-900-63	TDANCICTOD	DTA 1 9 4 F C	,								
-			DTA124ES	)		R566	1-249-421-11		2. 2K		1/4W	
Q629	8-729-422-73		UN4212			R567	1-249-417-11	CARBON	1K	5%	1/4W	
Q631	8-729-900-63		DTA124ES	i								
Q632	8-729-422-73		UN4212			R569	1-249-418-11		1. 2K		1/4W	
Q633	8-729-119-78	TRANSISTOR	2SC2785-	HFE		R572	1-249-417-11		1K	5%	1/4W	
						R575	1-249-433-11	CARBON	22K	5%	1/4W	
Q634	8-729-422-73		UN4212			R577-5	79					
Q635	8-729-900-63	TRANSISTOR	DTA124ES	;			1-249-425-11	CARBON	4.7K	5%	1/4W	
Q636	8-729-018-99	TRANSISTOR	2SD2394-	F		R580	1-249-419-11	CARBON	1.5K	5%	1/4W	
Q643	8-729-422-73	TRANSISTOR	UN4212									
Q803	8-729-422-73	TRANSISTOR	UN4212			R581	1-249-429-11	CARBON	10K	5%	1/4W	
						R582	1-249-429-11		10K	5%	1/4W	
Q804	8-729-422-73	TRANSISTOR	UN4212			R588	1-249-417-11		1 K	5%	1/4W	
Q805	8-729-422-73		UN4212			R591	1-249-426-11		5. 6K		1/4W	
Q806	8-729-422-73		UN4212			R593-5		Ontoon	0. UN	0.0	1/ 111	
Q807	8-729-119-78		2SC2785-	HEE		11000 0	1-249-429-11	CARRON	10K	5%	1/4W	
Q808	8-729-119-78		2SC2785-				1 243 423 11	CALLDON	1011	JA	1/4#	
Q000	0 723 113 70	HANDIDIOR	2502100	III L		R596	1-249-437-11	CADDON	47V	ΕOV	1 /400	
Q809	8-729-119-78	TDANCICTOD	2SC2785-	ucc					47K	5%	1/4W	
Q810	8-729-119-78		2SC2785~			R597	1-249-441-11		100K	5%	1/4W	
QOIU	0-729-119-70	INANSISION	2302700-	UL C		R602	1-247-807-11		100	5%	1/4W	
		/ DECICTOR >				R603	1-247-807-11		100	5%	1/4W	
		< RESISTOR >				R605	1-247-807-11	CARBUN	100	5%	1/4W	
DEOO	1 040 400 11	CADDON	000	E0/	4 /400	Dooo	4 040 405 44	a i ppou	4517	Fa:		
	1-249-409-11		220	5%	1/4W	R606	1-249-437-11		47K	5%	1/4W	
R501	1-249-409-11	CARBON	220	5%	1/4W	R607	1-247-807-11		100	5%	1/4W	
R503-50						R608	1-249-425-11		4. 7K		1/4W	
	1-249-417-11	CARBON	1K	5%	1/4W	R609	1-249-425-11	CARBON	4. 7K	5%	1/4W	
R510-51						R610	1-249-429-11	CARBON	10K	5%	1/4W	
	1-249-417-11	CARBON	1K	5%	1/4W							
R519-52	21					R611	1-249-437-11	CARBON	47K	5%	1/4W	
	1-249-429-11	CARBON	10K	5%	1/4W	R612	1-249-425-11	CARBON	4. 7K	5%	1/4W	
						R613	1-249-425-11	CARBON	4.7K	5%	1/4W	
R522	1-247-807-11	CARBON	100	5%	1/4W	R614	1-249-441-11		100K		1/4W	
	1-249-437-11		47K	5%	1/4W	R615	1-247-807-11		100	5%	1/4W	
R525-52			- ••							2.0	~/ *!!	
01	1-249-417-11	CARBON	1K	5%	1/4W	<u></u> 1. R616	1-212-865-00	FUSTRIF	22	5%	1/4W	F
R529	1-249-410-11		270	5%	1/4W	R617	1-249-425-11		4. 7K	5%	1/4W	
	1-249-410-11		270	5%	1/4W	R618	1-249-425-11		4. 7K	5%	1/4W	
11001	1 243 410 11	OTHEON	210	370	1/ 111	R619	1-249-423-11		4. 7K 47K			
R532	1-249-409-11	CARRON	220	5%	1/4W	R620	1-249-437-11		47K 47K	5% 5%	1/4W	
ROOL	* #10 JOS 11	VI III VII	220	U/I)	1/ 111	11020	1 410 401 11	OUTIDOH	4111	5%	1/4W	

The components identified by mark A or dotted line with mark.
A are critical for safety.
Replace only with part number specified.

ef. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remar
R621	1-249-433-11	CARBON	22K	5%	1/4W	R831-8	36				
R622	1-249-423-11		3. 3K	5%	1/4W		1-249-433-11	CARBON	22K	5%	1/4W
R623	1-249-429-11		10K	5%	1/4W	R837	1-249-425-11	CARBON	4.7K	5%	1/ <b>4W</b>
R624	1-249-425-11		4. 7K		1/4W	R838	1-249-425-11	CARBON	4. 7K	5%	1/4W
R625-		•			-, -	R841	1-249-429-11	CARBON	10K	5%	1/4W
11023	1-249-437-11	CARBON	47K	5%	1/4W	R842	1-249-429-11	CARBON	10K	5%	1/4W
DEJQ	1-247-807-11	CARRON	100	5%	1/4W	R843	1-249-433-11	CARBON	22K	5%	1/4W
R628	1-249-413-11		470	5%	1/4W	R844	1-249-433-11		22K	5%	1/4W
R629	_		100K		1/4W	R845-8		OMIDON	22	0.0	-,
R630	1-249-441-11					11043	1-249-422-11	CARRON	2. 7K	5%	1/4W
R631	1-247-895-00		470K		1/4W	DOE 1	1-249-426-11		5. 6K		1/4W
R632	1-249-437-11	CARBON	47K	5%	1/4W	R851 R852	1-249-426-11		5. 6K		1/4W
R633	1-249-425-11	CARBON	4. 7K	5%	1/ <b>4</b> W						
R634	1-249-437-11		47K	5%	1/4W	R853	1-249-425-11	CARBON	4. 7K	5%	1/4W
R635	1-249-421-11		2. 2K		1/4W	R854	1-249-425-11		4. 7K	5%	1/4W
R658	1-249-429-11		10K	5%	1/4W	R855	1-247-881-00		120K	5%	1/4W
R670	1-247-807-11		100	5%	1/4W	R856	1-247-881-00	CARBON	120K	5%	1/4W
11070	1 247 007 11	ONIDON	100	070	1, 1,,	R857	1-247-893-11		390K		1/4W
R687	1-249-409-11	CARBON	220	5%	1/4W						
R688	1-249-429-11	CARBON	10K	5%	1/4W	R858	1-247-893-11	CARBON	390K		1/4W
R692	1-247-903-00	CARBON	1M	5%	1/4W	R859	1-249-437-11		47K	5%	1/4W
R694	1-247-807-11	CARBON	100	5%	1/4W	R860	1-249-437-11	CARBON	47K	5%	1/4W
R697	1-249-426-11	CARBON	5. 6K	5%	1/4W	R861	1-249-417-11	CARBON	1K	5%	1/4W
						R862	1-249-417-11	CARBON	1 K	5%	1/4W
R698	1-249-426-11		5. 6K	5%	1/4W				4011	<b>-</b> 0.	4 /401
R801	1-249-437-11	CARBON	47K	5%	1/4W	R865	1-249-429-11		10K	5%	1/4W
R802	1-249-437-11	CARBON	47K	5%	1/4W	R866	1-249-429-11		10K	5%	1/4W
R803	1-249-417-11	CARBON	1K	5%	1/4W	R869	1-249-441-11		100K		1/4W
R804	1-249-417-11	CARBON	1K	5%	1/4W	R870 R871	1-249-441-11 1-249-420-11		100K 1.8K		1/4W 1/4W
DOOF	1 040 400 11	CADDON	22K	5%	1/4W	1071	1 243 420 11	UNILDON	1. 01.	0/10	1/ 1"
R805	1-249-433-11					R872	1-249-420-11	CARRON	1. 8K	5%	1/4W
R806	1-249-433-11		22K	5% 5%	1/4W		1-247-903-00		1. UK	5%	1/4W
R807	1-249-437-11		47K	5%	1/4W	R875			1M	5%	1/4W
R808	1-249-437-11		47K	5%	1/4W	R876	1-247-903-00				
R809	1-249-417-11	CARBON	1K	5%	1/4W	R877 R878	1-247-889-00 1-247-889-00		270K 270K		1/4W 1/4W
R810	1-249-417-11	CARBON	1K	5%	1/4W		1 21				
R811	1-249-438-11		56K	5%	1/4W	R879	1-247-881-00	CARBON	120K	5%	1/4W
R812	1-249-438-11		56K	5%	1/4W	R880	1-247-881-00	CARBON	120K	5%	1/4W
R813	1-249-441-11		100K		1/4W		1-249-435-11	CARBON	33K	5%	1/4W
R814	1-249-441-11		100K		1/4W	R882	1-249-435-11		33K	5%	1/4W
11017	1 245 441 17	ornipon.	10011	0.0	-,	R883	1-249-429-11	CARBON	10K	5%	1/4W
R815	1-249-426-11		5. 6K		1/4W			a. pp		<b>F</b> 0:	4 /45**
R816	1-249-426-11	CARBON	5. 6K	5%	1/4W	R884	1-249-429-11		10K	5%	1/4W
R817	1-247-887-00	CARBON	220K	5%	1/4W	R885	1-249-424-11		3. 9K		1/4W
R818	1-247-887-00	CARBON	220K	5%	1/4W	R886	1-249-424-11	CARBON	3. 9K		1/4W
R819	1-249-417-13	L CARBON	1K	5%	1/4W	R887	1-249-417-11		1K	5%	1/4W
		albes	411	<b>-</b> 0.	1 /450	R888	1-249-417-11	CARBON	1K	5%	1/4W
R820			1K	5%	1/4W	Doco	1 040 401 11	CADDON	ด ดูบ	Eor	1 /AW
R821			4. 7K		1/4W	R889	1-249-421-11		2. 2K		1/4W
R822			4. 7K		1/4W	R890	1-249-421-11	L CARBUN	2. 2K	<b>J</b> %	1/4W
R823			10K	5%	1/4W	R895-		A A D D O L'	4	ro.	1 /400
R824	1-249-429-1	1 CARBON	10K	5%	1/4W		1-249-381-13		1	5%	1/4W
						R905	1-247-811-00		150	5%	1/4W
R827	1-249-429-1	1 CARBON	10K	5%	1/4W	R906	1-247-811-00	CARBON	150	5%	1/4W
R829	1-247-895-0	D CARBON	470K	5%	1/4W						
R830		O CARBON	470K	5%	1/4W	R909	1-249-441-1	1 CARBON	100K	5%	1/4W

# MAIN MOTOR POWER RELAY Ref. No. Part No. Description Remark

Ref. No.	Part No.	Description		Remark
R910	1-249-441-11	CARBON	100K 5%	1/4W
R919	1-249-417-11	CARBON	1K 5%	1/4W
R920	1-249-417-11	CARBON	1K 5%	1/4W
R921	1-249-428-11	CARBON	8. 2K 5%	1/4W
R922	1-249-428-11	CARBON	8. 2K 5%	1/4W
R995	1-249-425-11	CARBON	4.7K 5%	-,
R996	1-249-425-11	CARBON	4.7K 5%	1/4W
		< VARIABLE RES	SISTOR >	
RV601	1-223-672-11	RES, VAR, CARE	SON 10K (MIC	C LEVEL)
		< VIBRATOR >		
X602	1-760-105-11	VIBRATOR, CRYS	STAL (32.768	BkHz)
X603	1-579-901-11	OSCILLATOR, CE	RAMIC (4.19	144MHz)
*****	*****	******	******	******
•	1-636-789-13	MOTOR BOARD ******		
		< CONNECTOR >		
CN708	1-564-722-11	PIN, CONNECTOR	R (SMALL TYP	PE) 6P
		< SWITCH >		
		SWITCH, LEAF (		******
*	1-652-897-11			
		******		
	1-533-233-11	HOLDER, FUSE		
		< CAPACITOR $>$		
C501	1-124-910-11	ELECT	47uF	20% 50V
C502-5	04 1-164-159-11	CFRAMIC	0. 1uF	50V
C505-5		CLIMITO	o. Tui	30 1
	1-101-005-00	CERAMIC	22000PF	50V
		< connector $>$		
		PIN, CONNECTOR		CD.
· UNDUZ	1-208-8//-11	PIN, CONNECTOR	ı (r∪ buanD)	ur
		< DIODE >		
D609	8-719-200-82			
	8-719-200-82			
		DIODE D3SB20	)	
DG 1 0	R_71U_200_89	DIODE 11EC2		

D619 8-719-200-82 DIODE

D620 8-719-200-82 DIODE D621 8-719-200-82 DIODE

11ES2

11ES2 11ES2

Ref. No.	Part No.	Description Remark
		< FUSE >
∕î\F501	1-532-237-00	FUSE (3. 15A)
∕ <b>1</b> \F502	1-532-506-51	FUSE (6. 3A) (UK)
<u></u> F502	1-532-246-11	FUSE (6. 3A) (UK) FUSE (6. 3A) (AEP)
		< LINE FILTER >
⚠LF501	1-424-150-11	TRANSFORMER, LINE FILTER
		< RESISTOR >
R584	1-249-433-11	CARBON 22K 5% 1/4W
R585	1-249-433-11	CARBON 22K 5% 1/4W
R586	1-249-437-11	· · · · · · · · · · · · · · · · · · ·
<b>_</b> 1. R587	1-219-112-11	FUSIBLE 10 5% 1/4W F
*******	*****	************************************
*	1-641-566-11	RELAY BOARD
*	3-380-110-01	HOLDER, PHOTO
		< CONNECTOR >
		PIN, CONNECTOR (PC BOARD) 13P PIN, CONNECTOR (SMALL TYPE) 4P
		< DIODE >
D691	8-719-911-19	DIODE 1SS119
		DIODE 1SS119
		< PHOTO INTERRUPTER >
PH691	8-719-939-11	PHOTO INTERRUPTER GP-2S09-B
		< SWITCH >
S691	1-572-248-11	SWITCH, LEAF (HALF)
S692		SWITCH, LEAF (TYPE II CrO2)
S693	1-572-248-11	SWITCH, LEAF (TYPEIV METAL)
S694	1-572-248-11	SWITCH, LEAF (ERASE PROOF) (SIDE A)
S695	1-572-248-11	SWITCH, LEAF (ERASE PROOF) (SIDE B)
		SWITCH, MICRO (STOP)
*****	******	************

The components identified by mark  $\triangle$  or dotted line with mark.  $\triangle$  are critical for safety.
Replace only with part number specified.

# SW TC

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Descrip	tion				Re	mark
*	A-3269-674-A	SW BOARD, COM	IPLETE (AE	P)		R435	 1-249-416-11	CARBON		- 82	0	5%	1/4W	
*		SW BOARD, COM				R436	1-249-418-11				2K		1/4W	
	A 3203 070 A	*******		,		R437	1-249-420-11				8K		1/4W	
		****	****			1								
		(				R438	1-249-423-11				3K		1/4W	
		< CAPACITOR >	•			R439	1-249-427-11	CARBUN		b.	8K	5%	1/4W	
	1-162-306-11		0. 01uF			R440	1-249-432-11	CARBON		18	K	5%	1/4W	
C409 C410-4	1-126-157-11 12	ELECI	10uF	20%	16V			< SWITC	H >					
0110 1	1-162-294-31	CERAMIC	0. 001u	F 10%	50V									
C413	1-161-494-00		0. 022u		25V	S401	1-692-444-11	SWITCH	KFY	ROARD	(TAI	PE = )		
	1-161-494-00		0. 022u		25V	S402	1-692-444-11							
0414	1-101-434-00	CERAMIC	0. 022u	l	234		1-692-444-11				•			
0.445 4	4.5					S403								
C415-4						S404	1-692-444-11							
	1-162-294-31	CERAMIC	0. 001u	F 10%	50V	S406	1-692-444-11	SWITCH,	KEY	BOARD	(LII	NE)		
		< CONNECTOR >				S407	1-692-444-11	SWITCH,	KEY	BOARD	(DBI	3)		
						S408	1-692-444-11	SWITCH,	KEY	BOARD	(S0l	JND)		
CN401	1-568-320-11	PLUG, CONNECT	OR 8P			S409	1-692-444-11	SWITCH,	KEY	BOARD	(POV	WER)		
	1-564-704-11			TYPE) 2P		S410	1-692-444-11	SWITCH.	KEY	BOARD	(TUN	NING +	)	
	1-568-322-11			,		S411	1-692-444-11	SWITCH	KEY	BOARD	(TU	NING -	)	
	1-766-247-11	·		ARD SP							(		,	
011100	1 700 247 11	COMMEDICITY DO	THID TO DO	into oi		S412	1-692-444-11	SWITCH	KEY	ROARD	<b>(</b>	/ <b>#</b> 1)		
		/ DIONE \				S412	1-692-444-11						ED VIIB	RING\
		< DIODE >											LU DOD	DINU)
D 404	0 740 040 07	1 E	Maroo (IV)	D. OVE		S414	1-692-444-11							
D401	8-719-048-87		MGF03 (KA			S415	1-692-444-11							
D403	8-719-048-88		MGF29 (SO			S416	1-692-444-11	SWITCH,	KEY	BOARD	(KAI	(AUKE)		
D404	8-719-048-88		MGF29 (DB											
D405	8-719-987-04	LED SLR-34V	RF39 (POW	ER)		S417	1-692-444-11							
						S418	1-692-444-11	SWITCH,	KEY	BOARD	(CD	$\triangleright$ ((()		
		< IC >				S419	1-692-444-11	SWITCH,	KEY	BOARD	(V0I	LUME -	•)	
						S420	1-692-444-11	SWITCH,	KEY	BOARD	(V0I	LUME +	)	
IC402	8-749-923-11	IC GP1U58XB	<b>;</b>			S421	1-692-444-11	SWITCH,	KEY	BOARD	(OPI	EN/CLC	SE 合)	
		< RESISTOR >				S422	1-692-444-11	SWITCH	KEY	BOARD	(PRI	ESET A	MS/SEA	RCH KK
		\ ILDIDION /					1-692-444-11							
R407	1-247-807-31	CADDON	100	5% 1/4	w		******	,			,			
						444444								
R415	1-249-410-11			5% 1/4			1 3000 COC 1	TO DOAD	n (1	MDI PTP	/AT	en)		
R416	1-249-417-11			5% 1/4		*	A-3269-686-A							
R417	1-249-411-11			5% 1/4		*	A-3269-688-A					()		
R420	1-249-415-11	CARBON	680	5% 1/4	W			*****	****	*****				
R421	1-249-416-11	CARBON	820	5% 1/4	W		7-685-647-79	SCREW,	TAPP	ING +BV	3X1	10		
R422	1-249-418-11	CARBON	1. 2K	5% 1/4	W	*	3-913-467-01	BRACKET	' (MD)	)				
R423	1-249-420-11		1. 8K				7-682-902-21	SCREW +	PWH :	2. 6X6				
R424	1-249-423-11		3. 3K				. 002 002 21	2011211						
R425	1-249-427-11		6. 8K					< CAPAC	ITOR	>				
		a.ppou	40**	<b>.</b>		2401	1 100 005 11	arn .u.			OPP		1.00	C017
R426	1-249-432-11			5% 1/4		C101	1-163-005-11		CHII		OPF		10%	50V
R427	1-249-415-11			5% 1/4		C102	1-124-126-00				uF		20%	107
R428	1-249-416-11			5% 1/4		C103	1-163-986-00		CHII		0271	1f	10%	25V
R429	1-249-418-11	CARBON	1. 2K	5% 1/4	W	C104	1-124-927-11				7uF		20%	100
R430	1-249-420-11	CARBON	1.8K	5% 1/4	W	C105	1-124-903-11	ELECT		1u	F		20%	50V
R431	1-249-423-11	CARBON	3. 3K	5% 1/4	W	C106	1-124-126-00	ELECT		47	uF		20%	10V
R432	1-249-427-11		6. 8K			C107	1-163-017-00		СНП		004	7uF	5%	50V
R432	1-249-427-11			5% 1/4		C108	1-163-009-11				001		10%	50V
n4aa	1-742-477-11	OMINDON				1			, 01111			41		
R434	1-249-415-11	CADDOM	680	5% 1/4	(A)	C109	1-124-907-11	F.I. F.L.L.			uF		20%	50V

C111 1-124-927-11 ELECT 4.7uF 20% 100V C317 1-137-575-11 FILM	100uF 0. 001uF 0. 022uF 470PF	20% 5%	10V 100V
C111 1-124-927-11 ELECT 4.7uF 20% 100V C317 1-137-575-11 FILM	0. 022uF		1000
		100	TOOA
	470PF	10%	25V
		5%	100V
VII.0 I BIO BOV 00 MBILLE VIII.	0. 022uF	10%	25V
111 1 101 307 11 BB01			
C115 1-164-161-11 CERAMIC CHIP 0.0022uF 10% 100V C321 1-137-576-11 FILM (	0. 0082uF	5%	100V
	47uF	20%	10V
	0. 0068uF	10%	50V
	0. 0068uF	10%	50V
	47uF	20%	10V
C120 1-163-123-00 CERAMIC CHIP 180PF 5% 50V C326 1-163-038-00 CERAMIC CHIP (	0. 1uF		25V
CIBI I IOO COI II COMMINIO CIII	220uF	20%	10V
C122 1-124-927-11 ELECT 4.7uF 20% 100V C330 1-124-903-11 ELECT	1uF	20%	50V
	0. 1uF		25V
C202 1-124-126-00 ELECT 47uF 20% 10V C332 1-163-038-00 CERAMIC CHIP (	0. 1uF		25V
	560PF	10%	50V
	560PF	10%	50V
	10uF	20%	50V
	0. 01uF		50V
C207 1-163-017-00 CERAMIC CHIP 0.0047uF 5% 50V C340 1-124-903-11 ELECT	1uF	20%	50V
7014 4 400 440 44 DEROW	000 F	0.00	100
	220uF	20%	10V
	22uF	20%	50V
0210 1 121 002 00 22201	100PF	5%	50V
	100PF	5%	50V
C212 1-124-927-11 ELECT 4. 7uF 20% 100V C345 1-163-009-11 CERAMIC CHIP (	0. 001uF	10%	50V
C213 1-216-295-00 METAL CHIP 0 5% 1/10W < CONNECTOR >			
C214 1-124-927-11 ELECT 4. 7uf 20% 100V			
C215 1-164-161-11 CERAMIC CHIP 0.0022uF 10% 100V * CN301 1-750-746-11 CONNECTOR, FFC/FI	PC 14P		
C216 1-163-119-00 CERAMIC CHIP 120PF 5% 50V * CN302 1-695-017-11 HOUSING, CONNECTOR			
C217 1-130-495-00 MYLAR 0.1uF 5% 50V CN305 1-750-739-11 CONNECTOR, FFC/FI			
CN306 1-750-745-11 CONNECTOR, FFC/FI			
C218 1-124-927-11 ELECT 4. 7uF 20% 100V			
C219 1-163-006-11 CERAMIC CHIP 560PF 10% 50V < DIODE >			
C220 1-163-123-00 CERAMIC CHIP 180PF 5% 50V			
C221 1-163-001-11 CERAMIC CHIP 220PF 10% 50V D301 8-719-404-46 DIODE MA110			
C222 1-124-927-11 ELECT 4. 7uF 20% 100V			
< 1C >			
C301 1-124-927-11 ELECT 4.7uF 20% 100V			
C302 1-124-443-00 ELECT 100uF 20% 10V IC301 8-759-249-21 IC uPC1330AGR			
C303 1-124-907-11 ELECT 10uF 20% 50V 1C302 8-759-265-81 IC BA3442KS			
C304 1-124-443-00 ELECT 100uF 20% 10V IC303 8-752-070-25 IC CXA1552M-T4			
C305 1-124-443-00 ELECT 100uF 20% 10V IC304 8-759-267-27 IC BU2092F			
C306 1-124-126-00 ELECT 47uF 20% 10V < JUMPER RESISTO	R >		
C307 1-163-011-11 CERAMIC CHIP 0.0015uF 10% 50V	=		
C308 1-124-925-11 ELECT 2. 2uF 20% 100V JR301 1-216-295-00 METAL CHIP 0		1/10W	
C309 1-124-903-11 ELECT 1uF 20% 50V JR302 1-216-295-00 METAL CHIP 0	5%	1/10W	
C310 1-124-443-00 ELECT 100uF 20% 10V			
COLL > 200 11 FLECT 200 FOV			
C311 1-126-233-11 ELECT 22uF 20% 50V	1.2mU		
	12mH		
	12mH		
C315 1-124-239-00 ELECT 6. 9uF 20% 10V L301 1-408-426-00 INDUCTOR	270uH		

1-10-993-11   1900CTOR CHIP   10H   10H   11H   12H   1973-09 FM PATAL CHIP   10M   31   1/19W   10M   32	Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Descri	iption			Remark
## A PART	L302	1-410-993-11	INDUCTOR CHII	P 1uH			R109	1-216-073-00	METAL	CHIP	10K	5%	1/10W
Region   1-522-685-00 LINK, IC IOP-N20 (0. 8A)   Right   1-216-694-00 METAL CRIP   3,9 K 5% 1/10W							R110	1-216-097-00	METAL	CHIP	100K	5%	1/10W
APS-301   1-532-885-00 LINK, IC ICP-N20 (0. 8a)   Ra114   1-216-097-00 METAL CHIP   100K   5% I/10W			< IC LINK >				R111	1-216-063-00	METAL	CHIP	3. 9K	5%	1/10W
TRANSISTOR							R113	1-216-063-00	METAL	CHIP	3. 9K	5%	1/10W
	<b>⚠</b> PS301	1-532-685-00	LINK, IC ICP	-N20 (0.8A)			R114	1-216-097-00	METAL	CHIP	100K	5%	1/10W
1-229-105-77 TRANSISTOR   283369-HIS   220370   2-26-29-00 METAL CHIP   150   5x   1/10W   2030   2-729-800-34 TRANSISTOR   2833070   2203070			< TRANSISTOR	>									· ·
Record   R					_								
Color   Region   Re	-												
Q006   8-729-101-07   TRANSISTOR   285789-DL   Q006   8-729-424-12   TRANSISTOR   UN2112   R207   1-216-073-00   METAL CHIP   10K   5%   1/10W					.6								
Record   R	-						R205	1-216-057-00	METAL	CHIP	2. 2K	5%	1/10W
R207   1-216-073-00 METAL CHIP   10K   5% 1/10W	•						Dooc	1 010 075 00	METAL	CILID	1.017	Γeν	1 /1 00
Q306   8-729-022-99   TRANSISTOR   DT0114TK   R208   1-216-075-00 METAL CHIP   10K   5%   1/10W	Q305	8-729-424-12	TRANSTSTOR	UNZIIZ									
	0000	0.700.000.00	TDANCICTOD	DTC114TV									
R201   1-216-097-00   METAL CHIP   100K   5%   1/10W	-												
S-729-920-21 TRANSISTOR   DTG14TKH04     S-729-920-46 TRANSISTOR   DTG14TKH04     S-729-920-424-59 TRANSISTOR   UN2212   R214   -216-063-00 METAL CHIP   3. 9K   5%   1/10W     S-729-920-21 TRANSISTOR   UN2212   R214   -216-093-00 METAL CHIP   100K   5%   1/10W     S-729-920-21 TRANSISTOR   UN2212   R301   -216-025-00 METAL CHIP   100K   5%   1/10W     S-729-920-21 TRANSISTOR   DTG14TKH04   R302   1-216-035-00 METAL CHIP   33K   5%   1/10W     S-729-920-21 TRANSISTOR   DTG14TKH04   R303   1-216-038-00 METAL CHIP   33K   5%   1/10W     S-729-920-21 TRANSISTOR   DTG14TKH04   R303   1-216-038-00 METAL CHIP   33K   5%   1/10W     S-729-920-46 TRANSISTOR   DTG14TKH04   R305   1-216-037-00 METAL CHIP   33K   5%   1/10W     S-729-901-46 TRANSISTOR   DTA114YK   R305   1-216-037-00 METAL CHIP   100K   5%   1/10W     S-729-901-46 TRANSISTOR   DTA114YK   R305   1-216-037-00 METAL CHIP   100K   5%   1/10W     S-729-901-46 TRANSISTOR   DTA114YK   R306   1-216-037-00 METAL CHIP   100K   5%   1/10W     S-729-901-46 TRANSISTOR   DTA114YK   R307   1-216-037-00 METAL CHIP   100K   5%   1/10W     S-729-901-46 TRANSISTOR   DTA114YK   R307   1-216-037-00 METAL CHIP   100K   5%   1/10W     S-729-901-46 TRANSISTOR   DTC114YK   R309   1-216-037-00 METAL CHIP   10K   5%   1/10W     S-729-901-46 TRANSISTOR   DTC114YK   R309   1-216-037-00 METAL CHIP   10K   5%   1/10W     S-729-901-46 TRANSISTOR   DTC114YK   R310   1-216-037-00 METAL CHIP   10K   5%   1/10W     S-729-901-46 TRANSISTOR   DTC114YK   R311   1-216-038-00 METAL CHIP   10K   5%   1/10W     S-729-902-52 TRANSISTOR   DTC114YK   R311   1-216-038-00 METAL CHIP   10K   5%   1/10W     S-729-902-53 TRANSISTOR   DTC114YK   R311   1-216-039-00 METAL CHIP   1K   5%   1/10W     S-729-902-53 TRANSISTOR   DTC114YK   R311   1-216-039-00 METAL CHIP   1K   5%   1/10W     S-729-902-52 TRANSISTOR   DTC114YK   R321   1-216-039-00 METAL CHIP   2. 2K   5%   1/10W     S-729-902-52 TRANSISTOR   DTC114YK   R321   1-216-039-00 METAL CHIP   2. 2K   5%   1/10W     S-729-902-52 TRANSISTOR   DTC114YK	-				ı.A								
R-729-901-46   TRANSISTOR   DTA114YK   R211   1-216-036-00   METAL CHIP   3.9K   5%   1/10W							NZ 10	1 210 037 00	MLIAL	01111	1001	J /0	1/10#
R213   1-216-053-00 METAL CHIP   3.9K   5%   1/10W	-				-1		R211	1-216-063-00	METAI	CHIP	3 QK	5%	1/10W
Q312   8-729-424-59   TRANSISTOR   UN2212   R311   1-216-097-00   METAL CHIP   100K   5%   1/10W     Q314   8-729-901-46   TRANSISTOR   D70.14TK    R302   1-216-085-00   METAL CHIP   33K   5%   1/10W     Q315   8-729-902-21   TRANSISTOR   D70.14TK    R302   1-216-085-00   METAL CHIP   33K   5%   1/10W     Q316   8-729-902-21   TRANSISTOR   D70.14TK    R303   1-216-085-00   METAL CHIP   33K   5%   1/10W     Q317   8-729-901-46   TRANSISTOR   D70.14TK    R303   1-216-085-00   METAL CHIP   33K   5%   1/10W     Q318   8-729-901-46   TRANSISTOR   D71.14TK    R305   1-216-073-00   METAL CHIP   100K   5%   1/10W     Q320   8-729-901-46   TRANSISTOR   D71.14TK    R305   1-216-073-00   METAL CHIP   10K   5%   1/10W     Q321   8-729-901-31   TRANSISTOR   D71.14TK    R305   1-216-073-00   METAL CHIP   10K   5%   1/10W     Q322   8-729-901-32   TRANSISTOR   D71.14TK    R309   1-216-073-00   METAL CHIP   10K   5%   1/10W     Q323   8-729-901-32   TRANSISTOR   D71.14TK    R309   1-216-073-00   METAL CHIP   10K   5%   1/10W     Q324   8-729-901-32   TRANSISTOR   D71.14TK    R310   1-216-030-00   METAL CHIP   3K   5%   1/10W     Q325   8-729-901-38   TRANSISTOR   D71.14TK    R311   1-216-030-00   METAL CHIP   3K   5%   1/10W     Q326   8-729-902-99   TRANSISTOR   UN2212   R314   1-216-039-00   METAL CHIP   1K   5%   1/10W     Q326   8-729-902-99   TRANSISTOR   UN2212   R314   1-216-039-00   METAL CHIP   1K   5%   1/10W     Q326   8-729-902-99   TRANSISTOR   UN2212   R320   1-216-079-00   METAL CHIP   1K   5%   1/10W     Q328   8-729-424-59   TRANSISTOR   UN2212   R320   1-216-079-00   METAL CHIP   1K   5%   1/10W     Q328   8-729-424-59   TRANSISTOR   UN2212   R320   1-216-079-00   METAL CHIP   1K   5%   1/10W     Q329   8-729-902-99   TRANSISTOR   UN2212   R320   1-216-079-00   METAL CHIP   1K   5%   1/10W     Q320   8-729-902-95   TRANSISTOR   UN2212   R321   1-216-079-00   METAL CHIP   1K   5%   1/10W     Q320   8-729-902-95   TRANSISTOR   UN2212   R320   1-216-079-00   METAL CHIP   2.2K   5%   1/10W     Q320   8-729-902-	QUII	0 723 301 40	HIANOIDION	DIMITAIN									
Range   Rang	0312	8-729-424-59	RANSISTOR	UN2212									
Rank	-												
R315   8-729-920-21 TRANSISTOR   DTC314TKH04   R305   1-216-083-00   METAL CHIP   CH	-												
R303   1-216-083-00   METAL CHIP   27K   5%   1/10W					14			1 210 000 00		*****		0.0	-/
R304   1-216-085-00   METAL CHIP   33K   5%   1/10W   1/20W	-						R303	1-216-083-00	METAL	CHIP	27K	5%	1/10W
Q317   8-729-901-46 TRANSISTOR   DTA114YK   R305   1-216-097-00   METAL CHIP   10K   5%   1/10W     Q328   8-729-901-46 TRANSISTOR   DTA114YK   R306   1-216-073-00   METAL CHIP   10K   5%   1/10W     Q320   8-729-901-46 TRANSISTOR   DTA114YK   R307   1-216-073-00   METAL CHIP   10K   5%   1/10W     Q321   8-729-900-52 TRANSISTOR   DTC114YK   R307   1-216-025-00   METAL CHIP   10K   5%   1/10W     Q322   8-729-901-46 TRANSISTOR   DTC114YK   R309   1-216-025-00   METAL CHIP   100   5%   1/10W     Q323   8-729-901-46 TRANSISTOR   DTC114YK   R310   1-216-063-00   METAL CHIP   3.9 K   5%   1/10W     Q324   8-729-900-52 TRANSISTOR   DTC114YK   R311   1-216-063-00   METAL CHIP   3.9 K   5%   1/10W     Q325   8-729-901-84 TRANSISTOR   DTC114YK   R312   1-216-063-00   METAL CHIP   3.9 K   5%   1/10W     Q326   8-729-920-99 TRANSISTOR   DTC114TK   R312   1-216-063-00   METAL CHIP   1K   5%   1/10W     Q327   8-729-424-59 TRANSISTOR   DTC114TK   R315   1-216-049-00   METAL CHIP   1K   5%   1/10W     Q328   8-729-424-59 TRANSISTOR   UN2212   R320   1-216-079-00   METAL CHIP   1K   5%   1/10W     Q329   8-729-902-99 TRANSISTOR   DTC114TK   R321   1-216-079-00   METAL CHIP   1K   5%   1/10W     Q330   8-729-92-99 TRANSISTOR   DTC114TK   R321   1-216-079-00   METAL CHIP   1K   5%   1/10W     Q330   8-729-92-95 TRANSISTOR   UN2112   R322   1-216-079-00   METAL CHIP   2.2 K   5%   1/10W     Q330   8-729-92-95 TRANSISTOR   UN2112   R322   1-216-079-00   METAL CHIP   2.2 K   5%   1/10W     Q344   8-729-92-56 TRANSISTOR   UN2112   R322   1-216-079-00   METAL CHIP   2.2 K   5%   1/10W     Q344   8-729-900-52 TRANSISTOR   DTC114YK   R325   1-216-069-00   METAL CHIP   2.2 K   5%   1/10W     Q350   8-729-900-52 TRANSISTOR   DTC114YK   R325   1-216-069-00   METAL CHIP   2.2 K   5%   1/10W     Q350   8-729-900-52 TRANSISTOR   DTC114YK   R325   1-216-069-00   METAL CHIP   2.2 K   5%   1/10W     Q350   8-729-900-52 TRANSISTOR   DTC114YK   R325   1-216-069-00   METAL CHIP   2.2 K   5%   1/10W     Q350   8-729-900-52 TRANSISTOR   DTC114YK	4010	0 120 020 21			-								
Q318	0317	8-729-901-46	TRANSISTOR	DTA114YK								5%	
Q321   8-729-920-31   TRANSISTOR   DTC343TK   Q322   8-729-900-52   TRANSISTOR   DTC114YK   R309   1-216-025-00   METAL   CHIP   D5%   1/10W   R310   1-216-150-00   METAL   CHIP   D5%   1/10W   R311   1-216-063-00   METAL   CHIP   D5%   1/10W   R312   1-216-063-00   METAL   CHIP   D7%											10K	5%	
Q322   8-729-900-52   TRANSISTOR   DTC114YK   R309   1-216-025-00   METAL CHIP   D00   5%   1/10W   R310   1-216-150-00   METAL CHIP   D30   5%   1/10W   R310   1-216-150-00   METAL CHIP   D30   5%   1/10W   R310   1-216-150-00   METAL CHIP   D30   5%   1/10W   R312   1-216-063-00   METAL CHIP   D30   5%   1/10W   R312   D16-063-00   METAL CHIP   D30   D70	Q320	8-729-901-46	TRANSISTOR	DTA114YK			R307	1-216-073-00	METAL	CHIP	10K	5%	1/10W·
R310	Q321	8-729-920-31	TRANSISTOR	DTC343TK									
Q323   8-729-901-46   TRANSISTOR   DTA114YK   R311   1-216-063-00   METAL CHIP   3. 9K   5%   1/10W   Q324   8-729-900-52   TRANSISTOR   DTC114YK   R312   1-216-063-00   METAL CHIP   3. 9K   5%   1/10W   Q326   8-729-902-99   TRANSISTOR   DTC114TK   R313   1-216-049-00   METAL CHIP   1K   5%   1/10W   Q326   8-729-902-99   TRANSISTOR   UN2212   R314   1-216-079-00   METAL CHIP   1K   5%   1/10W   Q328   8-729-424-59   TRANSISTOR   UN2212   R320   1-216-049-00   METAL CHIP   1K   5%   1/10W   Q329   8-729-902-99   TRANSISTOR   UN2212   R320   1-216-079-00   METAL CHIP   1K   5%   1/10W   Q330   8-729-424-12   TRANSISTOR   UN2112   R321   1-216-079-00   METAL CHIP   1K   5%   1/10W   Q330   8-729-424-59   TRANSISTOR   UN2212   R321   1-216-057-00   METAL CHIP   1K   5%   1/10W   Q343   8-729-424-59   TRANSISTOR   UN2212   R322   1-216-057-00   METAL CHIP   2. 2K   5%   1/10W   Q348   8-729-424-59   TRANSISTOR   UN2212   R323   1-216-057-00   METAL CHIP   2. 2K   5%   1/10W   Q604   8-729-900-52   TRANSISTOR   UN2212   R323   1-216-057-00   METAL CHIP   2. 2K   5%   1/10W   Q605   8-729-202-56   TRANSISTOR   UN2212   R323   1-216-057-00   METAL CHIP   2. 2K   5%   1/10W   Q605   8-729-202-56   TRANSISTOR   UN2212   R323   1-216-057-00   METAL CHIP   2. 2K   5%   1/10W   Q605   8-729-202-56   TRANSISTOR   UN2212   R323   1-216-057-00   METAL CHIP   2. 2K   5%   1/10W   Q605   8-729-202-56   TRANSISTOR   UN2212   R323   1-216-069-00   METAL CHIP   2. 2K   5%   1/10W   Q605   8-729-202-56   TRANSISTOR   UN2212   R323   1-216-057-00   METAL CHIP   2. 2K   5%   1/10W   Q605   8-729-202-56   TRANSISTOR   UN2212   R323   1-216-057-00   METAL CHIP   2. 2K   5%   1/10W   R331   1-216-039-00   METAL CHIP   2. 2K   5%   1/10W   R351   1-216-039-00	Q322	8-729-900-52	TRANSISTOR	DTC114YK			R309	1-216-025-00	METAL	CHIP	100	5%	1/10W
Name							R310	1-216-150-00	METAL	GLAZE	10	5%	1/8W
R325   8-729-801-84   TRANSISTOR   28B1013-4   R313   1-216-049-00   METAL CHIP   1K   5%   1/10W	Q323	8-729-901-46	TRANSISTOR	DTA114YK			R311	1-216-063-00	METAL	CHIP			
Q326   8-729-902-99   TRANSISTOR   DTC114TK   Q327   8-729-424-59   TRANSISTOR   UN2212   R314   1-216-079-00   METAL   CHIP   18K   5%   1/10W   R315   1-216-049-00   METAL   CHIP   18K   5%   1/10W   R315   1-216-049-00   METAL   CHIP   18K   5%   1/10W   R320   1-216-079-00   METAL   CHIP   18K   5%   1/10W   R330   8-729-424-59   TRANSISTOR   DTC114TK   R321   1-216-079-00   METAL   CHIP   18K   5%   1/10W   R321   1-216-079-00   METAL   CHIP   2. 2K   5%   1/10W   R324   1-216-057-00   METAL   CHIP   2. 2K   5%   1/10W   R324   1-216-057-00   METAL   CHIP   2. 2K   5%   1/10W   R330   1-216-057-00   METAL   CHIP   2. 2K   5%   1/10W   R330   1-216-069-00   METAL   CHIP   2. 2K   5%   1/10W   R330   1-216-059-00   METAL   CHIP   2. 2K   5%   1/10W   R330   1-216-059-00   METAL   CHIP   2. 7K   5%   1/10W   R331   1-216-059-00   METAL   CHIP   2. 7K   5%   1/10W   R341   1-216-059-00   METAL   CHIP   2. 7K   5%   1/10W   R341   1-216-059-00   METAL   CHIP   2. 2K   5%   1/10W   R351				DTC114YK			R312	1-216-063-00	METAL	CHIP			
Name	Q325			2SB1013-4			R313	1-216-049-00	METAL	CHIP	1K	5%	1/10W
R315	-	8-729-902-99	TRANSISTOR	DTC114TK									
Q328   8-729-424-59   TRANSISTOR   UN2212   R320   1-216-079-00   METAL   CHIP   18K   5%   1/10W     Q329   8-729-902-99   TRANSISTOR   DTC114TK   R321   1-216-079-00   METAL   CHIP   18K   5%   1/10W     Q330   8-729-424-12   TRANSISTOR   UN2112   R322   1-216-057-00   METAL   CHIP   2. 2K   5%   1/10W     Q343   8-729-424-59   TRANSISTOR   UN2212   R323   1-216-057-00   METAL   CHIP   2. 2K   5%   1/10W     Q344   8-729-900-52   TRANSISTOR   UN2212   R324   1-216-017-00   METAL   CHIP   47   5%   1/10W     Q604   8-729-900-52   TRANSISTOR   DTC114YK   R325   1-216-069-00   METAL   CHIP   47   5%   1/10W     Q605   8-729-202-56   TRANSISTOR   2SA950-Y   R329   1-216-134-00   METAL   CHIP   2. 2K   5%   1/8W     Q605   R729-202-56   TRANSISTOR   2SA950-Y   R329   1-216-134-00   METAL   CHIP   2. 2K   5%   1/8W     Q606   R729-202-56   TRANSISTOR   2SA950-Y   R329   1-216-134-00   METAL   CHIP   2. 2K   5%   1/8W     Q607   R330   1-216-049-00   METAL   CHIP   1K   5%   1/10W     R331   1-216-081-00   METAL   CHIP   2. 2K   5%   1/10W     R331   1-216-081-00   METAL   CHIP   2. 2K   5%   1/10W     R332   1-216-077-00   METAL   CHIP   15K   5%   1/10W     R333   1-216-059-00   METAL   CHIP   2. 7K   5%   1/10W     R334   1-216-089-01   METAL   CHIP   39K   0. 5%   1/10W     R340   1-216-073-00   METAL   CHIP   2. 2K   5%   1/10W     R341   1-216-073-00   METAL   CHIP   20K   5%   1/10W     R350   1-216-105-00   METAL   CHIP   20K   5%   1/10W     R360   1-216-073-00   METAL   CHIP   10K   5%   1/10W     R360   1-216-073-00   METAL   CHIP   10K   5%   1/10W     R361   1-216-089-00   METAL   CHIP   47K   5%   1/10W     R363   1-216-089-00   METAL   CHIP   47K   5%   1/10W     R364   1-216-097-00   METAL   CHIP   47K   5%   1/10W     R365   1-216-073-00   METAL   CHIP   47K   5%   1/10W     R365   1-216-073-00   METAL   CHIP   10K   5%   1/10W     R365   1-216-073-00   METAL   CHIP   50K   5%   1/10W     R366   1-216-073-00   METAL   CHIP   50K   5%   1/10W     R367   1-216-089-00   METAL   CHIP   50K   5%   1/10	Q327	8-729-424-59	TRANSISTOR	UN2212									
Q329   8-729-902-99   TRANSISTOR   DTC114TK   R321   1-216-079-00   METAL CHIP   18K   5%   1/10W     Q330   8-729-424-12   TRANSISTOR   UN2112   R322   1-216-057-00   METAL CHIP   2. 2K   5%   1/10W     Q343   8-729-424-59   TRANSISTOR   UN2212   R323   1-216-057-00   METAL CHIP   2. 2K   5%   1/10W     Q344   8-729-424-59   TRANSISTOR   UN2212   R323   1-216-057-00   METAL CHIP   47   5%   1/10W     Q604   8-729-900-52   TRANSISTOR   DTC114YK   R325   1-216-069-00   METAL CHIP   6. 8K   5%   1/10W     Q605   8-729-202-56   TRANSISTOR   ZSA950-Y   R329   1-216-134-00   METAL CHIP   2. 2   5%   1/8W     R330   1-216-146-00   METAL CHIP   2. 2   5%   1/8W     R331   1-216-081-00   METAL CHIP   22K   5%   1/10W     R101   1-216-049-00   METAL CHIP   1K   5%   1/10W     R102   1-216-049-00   METAL CHIP   1K   5%   1/10W     R103   1-216-059-00   METAL CHIP   15K   5%   1/10W     R103   1-216-059-00   METAL CHIP   2. 7K   5%   1/10W     R104   1-216-059-00   METAL CHIP   2. 7K   5%   1/10W     R105   1-216-059-00   METAL CHIP   2. 2K   5%   1/10W     R106   1-216-057-00   METAL CHIP   2. 2K   5%   1/10W     R106   1-216-073-00   METAL CHIP   12K   5%   1/10W     R107   1-216-073-00   METAL CHIP   10K   5%   1/10W     R108   1-216-073-00   METAL CHIP   10K   5%   1/10W     R107   1-216-073-00   METAL CHIP   10K   5%   1/10W     R107   1-216-073-00   METAL CHIP   10K   5%   1/10W     R107   1-216-073-00   METAL CHIP   10K   5%   1/10W     R108   1-216-073-00   METAL CHIP   10K   5%   1/10W     R109   1-216-073-00   METAL													
R320   1-216-057-00   METAL CHIP   2. 2K   5%   1/10W	-												
Q343 8-729-424-59 TRANSISTOR UN2212 Q344 8-729-424-59 TRANSISTOR UN2212 Q604 8-729-900-52 TRANSISTOR DTC114YK Q605 8-729-202-56 TRANSISTOR ZSA950-Y R605 8-729-202-56 TRANSISTOR ZSA950-Y R720 1-216-049-00 METAL CHIP 1K 5% 1/10W R730 1-216-049-00 METAL CHIP 2.2K 5% 1/10W R730 1-216-057-00 METAL CHIP 2.7K 5% 1/10W R730 1-216-059-00 METAL CHIP 2.7K 5% 1/10W R731 1-216-059-00 METAL CHIP 2.7K 5% 1/10W R733 1-216-059-00 METAL CHIP 2.7K 5% 1/10W R733 1-216-059-00 METAL CHIP 2.7K 5% 1/10W R734 1-216-059-00 METAL CHIP 2.7K 5% 1/10W R735 1-216-073-00 METAL CHIP 2.7K 5% 1/10W R735 1-216-073-00 METAL CHIP 2.7K 5% 1/10W R735 1-216-089-00 METAL CHIP 2.7K 5% 1/10W R736 1-216-073-00 METAL CHIP 2.7K 5% 1/10W R737 1-216-073-00 METAL CHIP 10K 5% 1/10W R738 1-216-089-00 METAL CHIP 47K 5% 1/10W R736 1-216-097-00 METAL CHIP 47K 5% 1/10W R737 1-216-073-00 METAL CHIP 10K 5% 1/10W R738 1-216-097-00 METAL CHIP 10K 5% 1/10W													
R323   1-216-057-00   METAL CHIP   2. 2K   5%   1/10W	•						R322	1-216-057-00	METAL	CHIP	2. ZK	5%	1/10W
R324 1-216-017-00 METAL CHIP 47 5% 1/10W R102 1-216-049-00 METAL CHIP 15% 5% 1/10W R103 1-216-029-00 METAL CHIP 15% 5% 1/10W R104 1-216-059-00 METAL CHIP 2. 2 K 5% 1/10W R105 1-216-057-00 METAL CHIP 2. 2 K 5% 1/10W R106 1-216-073-00 METAL CHIP 2. 2 K 5% 1/10W R107 1-216-073-00 METAL CHIP 1 K 5% 1/10W R107 1-216-073-00 METAL CHIP 1 K 5% 1/10W R107 1-216-073-00 METAL CHIP 1 K 5% 1/10W R108 1-216-073-00 METAL CHIP 2. 2 K 5% 1/10W R109 1-216-073-00 METAL CHIP 2. 2 K 5% 1							Daga	1 910 057 00	METAL	CHID	2 21	E0v	1 /1 AW
Q604 8-729-900-52 TRANSISTOR DTC114YK R325 1-216-069-00 METAL CHIP 6. 8K 5% 1/10W R329 1-216-134-00 METAL CHIP 2. 2 5% 1/8W R330 1-216-146-00 METAL CHIP 2. 2 5% 1/8W R330 1-216-049-00 METAL CHIP 2. 2 5% 1/8W R330 1-216-049-00 METAL CHIP 1K 5% 1/10W R332 1-216-049-00 METAL CHIP 1K 5% 1/10W R332 1-216-077-00 METAL CHIP 15K 5% 1/10W R333 1-216-059-00 METAL CHIP 15K 5% 1/10W R334 1-216-059-00 METAL CHIP 2. 7K 5% 1/10W R334 1-216-059-00 METAL CHIP 2. 7K 5% 1/10W R341 1-216-059-00 METAL CHIP 2. 2K 5% 1/10W R341 1-216-059-00 METAL CHIP 2. 7K 5% 1/10W R341 1-216-059-00 METAL CHIP 2. 7K 5% 1/10W R350 1-216-057-00 METAL CHIP 2. 2K 5% 1/10W R350 1-216-057-00 METAL CHIP 2. 2K 5% 1/10W R350 1-216-057-00 METAL CHIP 2. 2K 5% 1/10W R351 1-216-059-00 METAL CHIP 3. 3K 5% 1/10W	Q344	8-729-424-59	TRANSTSTUR	UNZZIZ									
R329   1-216-134-00   METAL CHIP   2. 2   5%   1/8W   R330   1-216-146-00   METAL CHIP   2. 2   5%   1/8W   R330   1-216-146-00   METAL CHIP   2. 2   5%   1/8W   R330   1-216-146-00   METAL CHIP   2. 2   5%   1/8W   R330   1-216-049-00   METAL CHIP   2. 2   5%   1/8W   R330   1-216-049-00   METAL CHIP   1   1/10W   R331   1-216-081-00   METAL CHIP   1   1/10W   R332   1-216-077-00   METAL CHIP   1   1/10W   R333   1-216-059-00   METAL CHIP   1   1/10W   R333   1-216-059-00   METAL CHIP   2. 7K   5%   1/10W   R334   1-216-0689-11   METAL CHIP   39K   0. 5%   1/10W   R341   1-216-059-00   METAL CHIP   1   1/10W   R341   1-216-073-00   METAL CHIP   1   1/10W   R341   1-216-073-00   METAL CHIP   1/10W   R350   1-216-105-00   METAL CHIP   2   2   2   3   1/8W   1/10W   R331   1-216-073-00   METAL CHIP   1   1/10W   R331   1-216-073-00   METAL CHIP   1   1/10W   R334   1-216-073-00   METAL CHIP   1   1/10W   R341   1-216-073-00   METAL CHIP   1   1/10W   R350   1-216-105-00   METAL CHIP   1   1/10W   R351   1-216-089-00   METAL CHIP   1   1/10W   R354   1-216-097-00   METAL CHIP   1   1/10W   1/10W   1/10W   R354   1-216-097-00   METAL CHIP   1   1/10W	0004	0 720 000 52	TDANCICTOD	DTC114VV									
R330 1-216-146-00 METAL GLAZE 6.8 5% 1/8W    R331 1-216-049-00 METAL CHIP 1K 5% 1/10W	=												
R331   1-216-081-00   METAL CHIP   22K   5%   1/10W   R332   1-216-077-00   METAL CHIP   15K   5%   1/10W   R332   1-216-077-00   METAL CHIP   15K   5%   1/10W   R332   1-216-059-00   METAL CHIP   15K   5%   1/10W   R333   1-216-059-00   METAL CHIP   2. 7K   5%   1/10W   R334   1-216-059-00   METAL CHIP   2. 7K   5%   1/10W   R334   1-216-059-00   METAL CHIP   39K   0. 5%   1/10W   R341   1-216-073-00   METAL CHIP   10K   5%   1/10W   R350   1-216-073-00   METAL CHIP   2. 20K   5%   1/10W   R350   1-216-105-00   METAL CHIP   2. 20K   5%   1/10W   R351   1-216-089-00   METAL CHIP   47K   5%   1/10W   R351   1-216-089-00   METAL CHIP   10K   5%   1/10W   R354   1-216-097-00   METAL CHIP   10K   5%   1/10W   1	Qouo	8-729-202-30	INANSISIUN	Z5A93U-1									
R101 1-216-049-00 METAL CHIP 1K 5% 1/10W R102 1-216-049-00 METAL CHIP 1K 5% 1/10W R103 1-216-029-00 METAL CHIP 150 5% 1/10W R104 1-216-059-00 METAL CHIP 2. 7K 5% 1/10W R105 1-216-057-00 METAL CHIP 2. 2. 2K 5% 1/10W R106 1-216-073-00 METAL CHIP 12K 5% 1/10W R107 1-216-073-00 METAL CHIP 10K 5% 1/10W R107 1-216-073-00 METAL CHIP 10K 5% 1/10W R108 1-216-073-00 METAL CHIP 10K 5% 1/10W R109 R350 1-216-105-00 METAL CHIP 2. 20K 5% 1/10W R351 1-216-089-00 METAL CHIP 2. 20K 5% 1/10W R351 1-216-089-00 METAL CHIP 47K 5% 1/10W R351 1-216-089-00 METAL CHIP 10K 5% 1/10W R354 1-216-097-00 METAL CHIP 10K 5% 1/10W			< RESISTOR >			,	RJJU	1 210 140 00	MLIAL	ULNLL		JA	170#
R102 1-216-049-00 METAL CHIP 1K 5% 1/10W R333 1-216-059-00 METAL CHIP 2. 7K 5% 1/10W R334 1-216-089-11 METAL CHIP 39K 0. 5% 1/10W R34 1-216-059-00 METAL CHIP 2. 7K 5% 1/10W R34 1-216-073-00 METAL CHIP 39K 0. 5% 1/10W R34 1-216-073-00 METAL CHIP 10K 5% 1/10W R350 1-216-073-00 METAL CHIP 2. 2K 5% 1/10W R350 1-216-105-00 METAL CHIP 2. 2K 5% 1/10W R350 1-216-105-00 METAL CHIP 2. 2K 5% 1/10W R351 1-216-089-00 METAL CHIP 2. 7K 5% 1/10W R351 1-216-089-00 METAL CHIP 2. 7K 5% 1/10W R351 1-216-097-00 METAL CHIP 2. 7K 5% 1/10W R351 1-216-097-00 METAL CHIP 47K 5% 1/10W R354 1-216-097-00 METAL CHIP 10K 5% 1/10W													
R103 1-216-029-00 METAL CHIP 150 5% 1/10W R334 1-216-689-11 METAL CHIP 39K 0.5% 1/10W R341 1-216-059-00 METAL CHIP 2.7K 5% 1/10W R341 1-216-073-00 METAL CHIP 10K 5% 1/10W R350 1-216-057-00 METAL CHIP 2.2K 5% 1/10W R350 1-216-105-00 METAL CHIP 220K 5% 1/10W R351 1-216-089-00 METAL CHIP 220K 5% 1/10W R351 1-216-089-00 METAL CHIP 47K 5% 1/10W R351 1-216-097-00 METAL CHIP 10K 5% 1/10W R354 1-216-097-00 METAL CHIP 10K 5% 1/10W		1-216-049-00	METAL CHIP	1K 5		'							
R104 1-216-059-00 METAL CHIP 2. 7K 5% 1/10W R105 1-216-057-00 METAL CHIP 2. 2K 5% 1/10W R106 1-216-075-00 METAL CHIP 12K 5% 1/10W R107 1-216-073-00 METAL CHIP 10K 5% 1/10W													
R105 1-216-057-00 METAL CHIP 2. 2K 5% 1/10W  R106 1-216-075-00 METAL CHIP 12K 5% 1/10W  R107 1-216-073-00 METAL CHIP 10K 5% 1/10W  R350 1-216-105-00 METAL CHIP 220K 5% 1/10W  R351 1-216-089-00 METAL CHIP 47K 5% 1/10W  R354 1-216-097-00 METAL CHIP 100K 5% 1/10W													
R350 1-216-105-00 METAL CHIP 220K 5% 1/10W R106 1-216-075-00 METAL CHIP 12K 5% 1/10W R107 1-216-073-00 METAL CHIP 10K 5% 1/10W R351 1-216-089-00 METAL CHIP 47K 5% 1/10W R354 1-216-097-00 METAL CHIP 100K 5% 1/10W							R341	1-216-073-00	METAL	CHIP	10K	5%	1/10 <b>W</b>
R106 1-216-075-00 METAL CHIP 12K 5% 1/10W R351 1-216-089-00 METAL CHIP 47K 5% 1/10W R354 1-216-097-00 METAL CHIP 100K 5% 1/10W	R105	1-216-057-00	METAL CHIP	2. 2K 5	1%	1/10W	5050	1 010 105 55	MERAL	OHID	00011	ra.	1 /1 050
R107 1-216-073-00 METAL CHIP 10K 5% 1/10W R354 1-216-097-00 METAL CHIP 100K 5% 1/10W	B. C.	==	MDM11 2000	40	•0.	4 (4 0)							
KINR T-STD-A/D-AA WETUF CHIL TSW 2% T\IAM   K3DD T-STD-A/D-AA WETUF CHIL TRW 2% T\IAM													
	KINR	1-210-075-00	MCIAL CHIP	12K 5	) <i>i</i> o	1/10M	кээв	1-710-079-00	MC I AL	VIII'		J/o	1/10#

The components identified by mark  $\triangle$  or dotted line with mark.  $\triangle$  are critical for safety.
Replace only with part number specified.

## TC TUNER

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		Ren	nark
R358	1-216-081-00	METAL CHIP	22K	5%	1/10W	*	A-3269-703-A	TUNER BOARD,	COMPLETE (AEP)		
R359	1-216-049-00		1K	5%	1/10W	*			COMPLETE (UK)		
R360	1-216-081-00		22K	5%	1/10W			******			
R362	1-216-079-00		18K	5%	1/10W						
R367	1-216-073-00		10K	5%	1/10W			< CAPACITOR	>		
nju <i>t</i>	1 210 073 00	METAL CITE	1011	J //)	1/1011			Commonitor.			
R368	1-216-089-00	METAL CHIP	47K	5%	1/10W	C1	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
	1-216-073-00		10K	5%	1/10W	C2		CERAMIC CHIP		5%	50V
R369 R370	1-216-073-00		47K	5%	1/10W	C3		CERAMIC CHIP		0.0	50V
R370	1-216-041-00		470	5%	1/10W	C4		CERAMIC CHIP		10%	50V
	1-216-041-00		476 47K	5%	1/10W	C5		CERAMIC CHIP		10%	50V
R374	1-210-009-00	MICIAL UNIF	4/1	J/6	1/10#	03	1 103 000 00	OLIMATO OTTI	011		001
D075	1 910 000 00	METAL CUID	47V	5%	1/10W	C6	1_163_038_00	CERAMIC CHIP	0. 1uF		25V
R375	1-216-089-00		47K			C7		CERAMIC CHIP		5%	50V
R376	1-216-049-00		1K	5% 5%	1/10W	1		CERAMIC CHIP		5%	50V
R377	1-216-041-00		470	5% 5%	1/10W	C8		CERAMIC CHIP		10%	50V
R378	1-216-057-00		2. 2K		1/10W	C9					50V
R379	1-216-097-00	METAL CHIP	100K	5%	1/10W	C10	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	30 4
					4 (4.01)	244		arning allin	0.01 P		50V
R380	1-216-049-00		1K	5%	1/10W	C11		CERAMIC CHIP		1.00	
R382	1-216-097-00		100K		1/10W	C12		CERAMIC CHIP		10%	50V
R383	1-216-097-00		100K		1/10W	C13		CERAMIC CHIP			50V
R384	1-216-073-00		10K	5%	1/10W	C14	1-124-907-11		10uF	20%	50V
R385	1-216-049-00	METAL CHIP	1K	5%	1/10W	C15	1-124-927-11	ELECT	4. 7uF	20%	100V
											<b>501</b> 1
R386	1-216-097-00		100K	5%	1/10W	C16	1-124-903-11		1uF	20%	50V
R387	1-216-037-00	METAL CHIP	330	5%	1/10W	C17	1-124-927-11		4. 7uF	20%	100V
R390-3	392					C18		CERAMIC CHIP		10%	50V
	1-216-073-00		10K	5%	1/10 <b>W</b>	C19		CERAMIC CHIP		10%	50V
R393	1-216-097-00	METAL CHIP	100K		1/10W	C20	1-164-345-11	CERAMIC CHIP	0. 082uF	10%	25V
R394	1-216-055-00	METAL CHIP	1. 8K	5%	1/10W						
						C21		CERAMIC CHIP		10%	25V
R395-3	397					C22		CERAMIC CHIP		10%	25V
	1-216-073-00	METAL CHIP	10K	5%	1/10W	C23		CERAMIC CHIP		5%	50V
R398	1-216-049-00	METAL CHIP	1K	5%	1/10W	C24	1-124-902-00		0. 47uF	20%	50V
R399	1-216-097-00	METAL CHIP	100K	5%	1/10W	C25	1-163-034-00	CERAMIC CHIP	0. 033uF		50V
		< VARIABLE R	RESISTOR	>		C26		CERAMIC CHIP			50V
						C27		CERAMIC CHIP		10%	50V
	1-241-630-11					C28	1-124-907-11		10uF	20%	50V
RV102	1-241-765-11	RES, ADJ, CA	ARBON 22K			C29	1-163-118-00	CERAMIC CHIP		5%	50V
RV103	1-238-019-11	RES, ADJ, CA	ARBON 47K			C30	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
RV201	1-241-630-11	RES, ADJ, CA	ARBON 10K								
RV202	1-241-765-11	RES, ADJ, CA	ARBON 22K			C31	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
						C32	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
RV203	1-238-019-11	RES, ADJ, CA	ARBON 47K			C33	1-130-483-00	MYLAR	0. 01uF	5%	50V
RV303	1-241-763-11	RES, ADJ, CA	ARBON 4.71	(		C34		CERAMIC CHIP			50V
RV304	1-241-763-11	RES, ADJ, CA	ARBON 4.71	ζ		C35	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
		< TRANSFORME	ER >			C36	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
						C37	1-163-134-00	CERAMIC CHIP	510PF	5%	50V
T301	1-433-391-11	TRANSFORMER,	BIAS OSC	CILLA	TOR	C38	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
	*****					C39	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
						C40	1-124-907-11	ELECT	10uF	20%	50V
						C41-44	1				
								CERAMIC CHIP	100PF	5%	50V
						C45		CERAMIC CHIP		5%	50V
						C46		CERAMIC CHIP		5%	50V
						1 010	1 100 000 00	CDIMENTO ONLI			

## TUNER

Ref. No.	Part No.	Description		Re	emark	Ref.	No.	Part No.	Descr	ription			Remark
C47	1-136-177-00	FILM	1uF	5%	50V				< IC	>			
C48	1-130-483-00	MYLAR	0. 01uF	5%	50V								
C49	1-124-443-00	ELECT	100uF	20%	10V	IC	1	8-759-039-95	IC	TA8176SN			
C51	1-124-902-00		0. 47uF	20%	50V	IC		8-759-082-01		TA2007AN			
C52	1-124-902-00	ELECT	0. 47uF	20%	50V	IC	3	8-759-823-81	10	LC7216M			
C53	1-163-117-00	CERAMIC CHIP	100PF	5%	50V				< coi	Γ >			
C54		CERAMIC CHIP	0. 001uF	10%	50V								
C55-57						L1		1-402-738-11					
450		CERAMIC CHIP	0. 022uF	Fev.	50V	L2		1-406-484-21					
C59		CERAMIC CHIP	100PF 100uF	5%	50V	L4 L5		1-406-483-11 1-410-977-11			100ul	ı	
C61	1-124-443-00	CLC()	100ur	20%	10V	L6		1-410-977-11	TNDUC	10n	10001	ı	
C62	1-163-033-00	CERAMIC CHIP	0. 022uF		50V			1-410-971-11	INDUC	TOR	10uH		
C63	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V				/ TDA	NSISTOR	_		
		< FILTER >							\ 1na	nototon	/		
						Q1		8-729-920-38	TRANS	ISTOR	2SC2059F	(-N	
CF1		FILTER, CERAMIC				Q2		8-729-119-32			2SK193-E		
CF2		FILTER, CERAMIC				Q3		8-729-900-52			DTC114YH		
CF3		DISCRIMINATOR,				Q4		8-729-900-52			DTC114YH		
CF4	1-579-762-21	VIBRATOR, CERAM	IIC			Q5		8-729-900-52	TRANS	ISTOR	DTC114Yk		
		< ENCAPSULATED	COMPONENT >	•		Q6		8-729-120-28	TRANS	ISTOR	2SC1623-	L5L6	
						Q7		8-729-120-28	TRANS	ISTOR	2SC1623-	L5L6	
CFT1	1-239-173-11	ENCAPSULATED CO	MPONENT			Q8		8-729-920-38			2SC2059F		
						Q9		8-729-120-28			2SC1623-		
		< CONNECTOR >				Q1	0	8-729-923-73	TRANS	ISTOR	DTA123YH		
* CN1	1-563-594-11	CONNECTOR, FLEX	IBLE 17P			Q1	1	8-729-012-83	TRANS	ISTOR	2SK679A		
* CN4		PIN, CONNECTOR				Q1		8-729-106-07			2SK514-F		
* CN12		PIN, CONNECTOR				Q1		8-729-424-28			UN2116		
* CN13	1-766-825-11	PIN, CONNECTOR	(PC BOARD)	4P		Q1		8-729-900-52			DTC114Y		
		< TRIMMER >				Q1	1	8-729-900-52	TRANS	1210K	DTC114YH		
						Q1	8	8-729-601-58	TRANS	ISTOR	2SC3053-	C	
CT1	1-141-411-11	CAP, ADJ 20PF				Q1	9	8-729-900-52	TRANS	ISTOR	DTC114YH		
CT2	1-141-411-11	CAP, ADJ 20PF				Q2	0	8-729-923-73	TRANS	ISTOR	DTA123YH	į.	
CT3	1-141-410-11	CAP, ADJ 10PF				Q2	1	8-729-902-99			DTC114Th		
CT4		CAP, ADJ 40PF				Q2	2	8-729-902-99	TRANS	ISTOR	DTC114TH		
CT5	1-141-410-11	CAP, ADJ 10PF							mb	Taman			
		/ DIODE >				Q2		8-729-144-85			2SK1133		
		< DIODE >				Q2 Q2		8-729-900-52 8-729-900-52			DTC114YH DTC114YH		
D1	8-719-801-78	DIODE 1SS184				42	J	0 723 300 32	TIMNO	101011	DIUITAII		
D2	8-713-300-57								< RES	ISTOR >			
D3	8-713-300-57												
D4	8-719-980-71		-V			R1		1-216-025-00	METAL	CHIP	100	5%	1/10W
D5	8-719-026-23	DIODE MA786				R2		1-216-057-00	METAL	CHIP	2. 2K	5%	1/10W
						R3		1-216-013-00	METAL	CHIP	33	5%	1/10W
D6	8-719-104-34	DIODE 1S2836				R4		1-216-089-00			47K	5%	1/10 <b>W</b>
		< BPF >				R5		1-216-077-00	METAL	CHIP	15K	5%	1/10W
		V DIT /				R6		1-216-077-00	METAI	CHIP	15K	5%	1/10 <b>W</b>
FL1	1-236-711-21	FILTER, BAND PA	SS			R7		1-216-089-00			47K	5%	1/10W
			•			R8		1-216-037-00			330	5%	1/10W
						R9		1-216-027-00			120	5%	1/10W
						R1		1-216-015-00			39	5%	1/10W

## TUNER

Ref. No.	Part No.	Descrip	otion		Remark	Ref. No.	Part No.	Description	Remark
R11	1-216-049-00	METAL C	CHIP 1K	5%	1/10W		-	< TRANSFORMER >	
R12	1-216-089-00	METAL C	CHIP 47K	5%	1/10W	1			
R13	1-216-063-00	METAL C	CHIP 3.98	5%	1/10W	T1	1-416-015-21	TRANSFORMER, IF	
R14	1-216-073-00	METAL C	CHIP 10K	5%	1/10W				
R15	1-216-057-00	METAL C	CHIP 2. 2k	5%	1/10W			< VIBRATOR >	
R16	1-216-068-00	METAL C	CHIP 6. 2k	5%	1/10W	X1	1-579-574-21	VIBRATOR, CRYSTAL (7.2MHz)	
R17	1-216-073-00	METAL C	CHIP 10K	5%	1/10W	******	******	*********	*****
R18	1-216-029-00	METAL C	HIP 150	5%	1/10W				
R19	1-216-073-00	METAL C	HIP 10K	5%	1/10W			MISCELLANEOUS	
R20	1-216-089-00	METAL C	CHIP 47K	5%	1/10W			*******	
R21	1-216-090-00	METAL C	HIP 51K	5%	1/10W	<u> 1</u> 9	1-575-651-11	CORD, POWER (AEP)	
R22	1-216-085-00	METAL C	HIP 33K	5%	1/10W	<u>14</u>	1-696-570-21	CORD, POWER (UK)	
R23	1-216-081-00	METAL C	HIP 22K	5%	1/10W	72	1-765-436-11	WIRE, PARALLEL (FFC) (14 CORE)	
R24	1-216-073-00	METAL C	HIP 10K	5%	1/10W	73	1-765-437-11	WIRE, PARALLEL (FFC) (7 CORE)	
R25	1-216-066-00	METAL C	CHIP 5. 1K	5%	1/10W	74	1-765-435-11	WIRE, PARALLEL (FFC) (13 CORE)	
R26	1-216-066-00	METAL C	HIP 5. 18	5%	1/10W	75	1-765-640-11	WIRE, PARALLEL (FFC) (17 CORE)	
R27	1-216-057-00	METAL C	HIP 2. 2K	5%	1/10W	76	1-765-434-11	WIRE, PARALLEL (FFC) (17 CORE)	
R28	1-216-049-00	METAL C	HIP 1K	5%	1/10W	* 77	1-766-695-11	WIRE, PARALLEL (FFC) (9 CORE)	
R29	1-216-049-00	METAL C	HIP 1K	5%	1/10W	104	1-452-493-21	MAGNET	
R30	1-216-073-00	METAL C	HIP 10K	5%	1/10W	<u>1</u> 127	8-848-127-11	PICK-UP, OPTICAL KSS-210A	
R31	1-216-105-00	METAL C	HIP 220K	5%	1/10 <b>W</b>	251	1-765-399-11	CORD (SPEAKER)	
R32	1-216-057-00	METAL C	HIP 2.2K	5%	1/10W	<u></u> <b>⚠</b> F501	1-532-237-00	FUSE (3. 15A)	
R33	1-216-073-00	METAL C	HIP 10K	5%	1/10W	<u></u> <b>1 1 1 1 1 1 1 1 1 1</b>	1-532-506-51	FUSE (6. 3A) (UK)	
R34	1-216-049-00	METAL C	HIP 1K	5%	1/10W	<u></u> 11. F502	1-576-264-11	FUSE (6. 3A) (AEP)	
R35	1-216-089-00	METAL C	HIP 47K	5%	1/10W	HRPE30	1 1-543-991-12	1 HEAD, MAGNETIC (REC/PB/ERASE)	
R36-38						M691	A-3263-138-A	MOTOR ASSY (REEL/CAPSTAN)	
	1-216-073-00	METAL C	HIP 10K	5%	1/10W	M701	X-2625-132-1	GEAR ASSY, MOTOR (SLED)	
R39	1-216-049-00	METAL C	HIP 1K	5%	1/10W	M703	X-2625-117-1	MOTOR ASSY, LOADING	
R40	1-216-089-00	METAL C	HIP 47K	5%	1/10W	PM691	1-454-595-11	SOLENOID, PLUNGER	
R41	1-216-065-00	METAL C	HIP 4.7K	5%	1/10W	SP901	1-504-611-11	SPEAKER (10CM) (L-CH)	
R42	1-216-073-00	METAL C	HIP 10K	5%	1/10W				
						SP902	1-504-611-11	SPEAKER (10CM) (R-CH)	
R43	1-216-073-00	METAL C	HIP 10K	5%	1/10W	<u>1</u> 1√1501	1-426-872-11	TRANSFORMER, POWER (AEP)	
R44	1-216-025-00	METAL C	HIP 100	5%	1/10W	<u>1</u> 1501	1-426-873-11	TRANSFORMER, POWER (UK)	
R45	1-216-049-00	METAL C	HIP 1K	5%	1/10W				
R46	1-216-057-00	METAL C	HIP 2.2K	5%	1/10W	******	******	**********	******
R47	1-216-089-00	METAL C	HIP 47K	5%	1/10W				
R48	1-216-027-00	METAL C	HIP 120	5%	1/10W				
R49	1-216-033-00	METAL C	HIP 220	5%	1/10W				
R50	1-216-025-00	METAL C	HIP 100	5%	1/10W				
R51	1-216-065-00	METAL C	HIP 4.7K	5%	1/10W				
R52	1-216-081-00	METAL C	HIP 22K	5%	1/10W				
R53	1-216-049-00	METAL C	HIP 1K	5%	1/10W				
R55	1-216-057-00				1/10W				
R56-59						7 7			
Doo	1-216-295-00			5%	1/10W				
R60	1-216-101-00				1/10W				
R61	1-216-025-00	METAL CI	HIP 100	5%	1/10W				
R62	1-216-097-00	METAL CI	HIP 100K	5%	1/10W	,			
R70	1-216-295-00	METAL CI	HIP 0	5%	1/10W				

The components identified by mark A or dotted line with mark. A are critical for safety.
Replace only with part number specified.

Ref. No. Part No. Description Remark \*\*\*\*\*\* HARDWARE LIST \*\*\*\*\*\*\*\* 7-621-255-15 SCREW +P 2X3 7-682-548-04 SCREW +BVTT 3X8 (S) #2 7-627-553-97 PRECISION SCREW +P 2X8 TYPE 3 #3 7-685-659-79 SCREW +BVTP 4X8 TYPE2 IT-3 #4 7-682-902-21 SCREW +PWH 2.6X6 #5 7-685-134-19 SCREW +P 2.6X8 TYPE2 SLIT 7-685-245-19 SCREW +KTP 3X6 TYPE2 NON-SLIT #7 #8 7-685-647-79 SCREW, TAPPING +BV 3X10 7-685-648-79 SCREW, TAPPING +BV 3X12 #9 7-685-645-79 SCREW +BVTP 3X6 TYPE2 N-S (UK) #10 ACCESSORIES & PACKING MATERIALS \*\*\*\*\*\*\*\*\* 1-467-789-11 COMMANDER, STANDARD (RMT-C301) 1-501-374-11 ANTENNA, LOOP 1-501-594-11 ANTENNA (FM) 3-758-948-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH) 3-758-948-41 MANUAL, INSTRUCTION (DUTCH, SWEDISH, ITALIAN, PORTUGUESE) (AEP) 3-917-051-01 INDIVIDUAL CARTON 3-917-735-01 CUSHION (SP) 3-917-736-01 CUSHION (TOP) 3-917-737-01 CUSHION (BOTTOM)